

**MOBIL CLEAN HIGH MILEAGE 10W-30 Product Name:** 

Revision Date: 23May2008

Page 1 of 9

# **MATERIAL SAFETY DATA SHEET**

### **SECTION 1**

### PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT** 

**MOBIL CLEAN HIGH MILEAGE 10W-30 Product Name:** 

Base Oil and Additives **Product Description: Product Code:** 484014-00. 97Z359

Intended Use: Engine oil

**COMPANY IDENTIFICATION** 

**EXXON MOBIL CORPORATION** Supplier:

3225 GALLOWS RD.

FAIRFAX, VA. 22037 USA

609-737-4411 24 Hour Health Emergency 800-424-9300 **Transportation Emergency Phone** 281-834-3296 ExxonMobil Transportation No. 713-613-3661 **MSDS** Requests

800-662-4525, 800-947-9147 **Product Technical Information** 

http://www.exxon.com, http://www.mobil.com **MSDS Internet Address** 

#### **SECTION 2**

# **COMPOSITION / INFORMATION ON INGREDIENTS**

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Reportable Hazardous Substance(s) or Complex Substance(s)

Name	CAS#	Concentration*
ZINC ALKYLDITHIOPHOSPHATE	68649-42-3	< 2.5%

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

### **SECTION 3**

#### HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

### POTENTIAL HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory imitation. High-pressure injection under skin may cause serious damage.

Flammability: Reactivity: 0 NFPA Hazard ID: Health: Reactivity: Flammability: 1 **HMIS Hazard ID:** Health:

This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

1	SECTION 4	FIRST AID MEASURES
- 1		



Revision Date: 23May2008

Page 2 of 9

#### INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

#### SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### **EYE CONTACT**

Flush thoroughly with water. If irritation occurs, get medical assistance.

#### **INGESTION**

First aid is normally not required. Seek medical attention if discomfort occurs.

### **SECTION 5**

#### **FIRE FIGHTING MEASURES**

### **EXTINGUISHING MEDIA**

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

#### **FIRE FIGHTING**

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Smoke, Fume, Aldehydes, Sulfur oxides, Oxides of carbon, Incomplete combustion products

### **FLAMMABILITY PROPERTIES**

Flash Point [Method]: >200C (392F) [ ASTM D-92]

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0

Autoignition Temperature: N/D

#### **SECTION 6**

#### **ACCIDENTAL RELEASE MEASURES**

#### **NOTIFICATION PROCEDURES**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the



Revision Date: 23May2008

Page 3 of 9

applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

#### SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

#### **ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

#### **SECTION 7**

#### HANDLING AND STORAGE

#### HANDLING

Avoid contact with used product. Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is a static accumulator.

#### **STORAGE**

Do not store in open or unlabelled containers.

#### **SECTION 8**

### **EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **EXPOSURE LIMIT VALUES**

Exposure limits/standards for materials that can be formed when handling this product: When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL, 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

#### **ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

#### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications,



Revision Date: 23May2008

Page 4 of 9

handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

### **ENVIRONMENTAL CONTROLS**

See Sections 6, 7, 12, 13.

### **SECTION 9**

#### PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

#### **GENERAL INFORMATION**

Physical State: Liquid

Color: Amber
Odor: Characteristic
Odor Threshold: N/D

## IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 C): 0.87

Flash Point [Method]: >200C (392F) [ ASTM D-92]

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0

Autoignition Temperature: N/D



Revision Date: 23May2008

Page 5 of 9

Boiling Point / Range: N/D Vapor Density (Air = 1): N/D

Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 C Evaporation Rate (n-butyl acetate = 1): N/D

pH: N/A

Log Pow (n-Octanol/Water Partition Coefficient): > 3.5

Solubility in Water: Negligible

Viscosity: 67 cSt (67 mm2/sec) at 40 C | 10.5 cSt (10.5 mm2/sec) at 100C

Oxidizing Properties: See Sections 3, 15, 16.

OTHER INFORMATION

Freezing Point: N/D Melting Point: N/A

Pour Point: -24°C (-11°F)

DMSO Extract (mineral oil only), IP-346: < 3 %wt

### **SECTION 10**

#### STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

### **SECTION 11**

### **TOXICOLOGICAL INFORMATION**

#### **ACUTE TOXICITY**

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m3	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures.  Based on assessment of the components.
Ingestion	
Toxicity (Rat): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

### **CHRONIC/OTHER EFFECTS**



Revision Date: 23May2008

Page 6 of 9

23May2008

ORIGINAL

### For the product itself:

Diesel engine oils: Not carcinogenic in animals tests. Used and unused diesel engine oils did not produce any carcinogenic effects in chronic mouse skin painting studies.

Oils that are used in gasoline engines may become hazardous and display the following properties: Carcinogenic in animal tests. Caused mutations in vitro. Possible allergen and photoallergen. Contains polycyclic aromatic compounds (PAC) from combustion products of gasoline and/or thermal degradation products.

#### Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

-- REGULATORY LISTS SEARCHED--

1 = NTP CARC

3 = IARC 1

5 = IARC 2B

2 = NTP SUS

4 = IARC 2A

6 = OSHA CARC

### **SECTION 12**

# **ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

#### **ECOTOXICITY**

Material -- Not expected to be harmful to aquatic organisms.

#### **MOBILITY**

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

#### PERSISTENCE AND DEGRADABILITY

### Biodegradation:

Base oil component -- Expected to be inherently biodegradable

### **BIOACCUMULATION POTENTIAL**

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

#### **SECTION 13**

#### **DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.



Revision Date: 23May2008

Page 7 of 9

#### **DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

#### REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

#### **SECTION 14**

#### TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

### **SECTION 15**

#### REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:** When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: KECI, DSL, ENCS, TSCA Special Cases:

Inventory	Status
ELINCS	Restrictions Apply

**EPCRA:** This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY:



Revision Date: 23May2008

Page 8 of 9

ORIGINAL

Chemical Name	CAS Number	Typical Value
ZINC ALKYLDITHIOPHOSPHATE	68649-42-3	< 2.5%

The Following Ingredients are Cited on the Lists Below:

Chemical Name	CAS Number	List Citations
DIPHENYLAMINE	122-39-4	5, 18
ZINC ALKYLDITHIOPHOSPHATE	68649-42-3	13, 15, 17

#### -- REGULATORY LISTS SEARCHED-

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

		<del></del>	
SECTION 16	OTHER INFORMATION		
SECTION ID	OTHER INFORMATION		

N/D = Not determined. N/A = Not applicable

### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Changes:

Section 06: Notification Procedures - Header was modified.

Section 13: Empty Container Warning was modified.

Section 08: Hand Protection was modified.

Section 09: Vapor Pressure was modified.

Section 11: Dermal Lethality Test Data was modified.

Section 11: Oral Lethality Test Data was modified.

Section 11: Inhalation Lethality Test Data was modified.

Section 06: Accidental Release - Spill Management - Water was modified.

Section 09: Relative Density - Header was modified.

Section 09: Flash Point C(F) was modified.

Section 09: Viscosity was modified.

Section 09: Viscosity was modified.

Composition: Component table was modified.

Section 15: List Citations Table was modified.

Section 15: SARA (313) TOXIC RELEASE INVENTORY - Table was modified.

Section 15. National Chemical Inventory Listing was modified.

Section 06: Accidental Release Measures - Environmental Precautions was modified.

Section 16: Code to MHCs was modified.

Section 06: Notification Procedures was modified.

Section 08: Exposure Limit Values - Header was added.

Section 12: Ecological Information - Acute Aquatic Toxicity was added.

Section 12: Ecological Information - Acute Aquatic Toxicity was added.

Section 16: Global Disclaimer was added.

Hazard Identification: Environmental Hazard was deleted.

Hazard Identification: Environmental Hazard - Header was deleted.

Section 16: Disclaimer was deleted.

Section 12: Ecological Information - Acute Aquatic Toxicity was deleted.

Section 12: Ecological Information - Acute Aquatic Toxicity was deleted.

ORIGINAL **MOBIL CLEAN HIGH MILEAGE 10W-30** Product Name: Revision Date: 23May2008 Page 9 of 9 The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest. Internal Use Only MHC: 0B, 0B, 0, 0, 0, 0 PPEC: A

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Product Name: MOBIL 1 RACING 4T 20W-50

Revision Date: 30Apr2009

Page 1 of 9

ORIGINAL

# **MATERIAL SAFETY DATA SHEET**

### **SECTION 1**

### PRODUCT AND COMPANY IDENTIFICATION

#### **PRODUCT**

Product Name: MOBIL 1 RACING 4T 20W-50

Product Description: Synthetic Base Stocks and Additives

**Product Code:** 482935-00. 97X094

Intended Use: Engine oil

#### **COMPANY IDENTIFICATION**

Supplier: EXXON MOBIL CORPORATION

3225 GALLOWS RD.

FAIRFAX, VA. 22037 USA

24 Hour Health Emergency609-737-4411Transportation Emergency Phone800-424-9300ExxonMobil Transportation No.281-834-3296

Product Technical Information 800-662-4525, 800-947-9147

MSDS Internet Address http://www.exxon.com, http://www.mobil.com

### **SECTION 2**

#### **COMPOSITION / INFORMATION ON INGREDIENTS**

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Reportable Hazardous Substance(s) or Complex Substance(s)

Name	CAS#	Concentration*
ZINC DITHIOPHOSPHATE	68649-42-3	< 2.5%

<sup>\*</sup> All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

### **SECTION 3**

#### HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

#### POTENTIAL HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID: Health: 0 Flammability: 1 Reactivity: HMIS Hazard ID: Health: 0 Flammability: 1 Reactivity:

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4	FIRST AID MEASURES	
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Product Name: MOBIL 1 RACING 4T 20W-50

Revision Date: 30Apr2009

Page 7 of 9

product may be regulated.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

### **SECTION 14**

### TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

### **SECTION 15**

#### **REGULATORY INFORMATION**

**OSHA HAZARD COMMUNICATION STANDARD:** When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, DSL, ENCS, TSCA Special Cases:

Inventory	Status
ELINCS	Restrictions Apply

**EPCRA:** This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

#### SARA (313) TOXIC RELEASE INVENTORY:

Chemical Name	CAS Number	Typical Value
ZINC DITHIOPHOSPHATE	68649-42-3	< 2.5%

#### The Following Ingredients are Cited on the Lists Below:

Chemical Name	CAS Number	List Citations
DIPHENYLAMINE	122-39-4	5
PHENOL,	118-82-1	5 Cercle May



Product Name: MOBIL 1 RACING 4T 20W-50

Revision Date: 30Apr2009

Page 8 of 9

ORIGINAL 4,4-METHYLENEBIS(2,6-BIS(1,1, أحلكم لي رَا DIMETHYLETHYL)-13, 15, 17 ZINC DITHIOPHOSPHATE 68649-42-3

-- REGULATORY LISTS SEARCHED--

11 = CA P65 REPRO 16 = MN RTK 1 = ACGIH ALL 6 = TSCA 5a217 = N.J RTK 2 = ACGIH A1 7 = TSCA 5e 12 = CA RTK 18 = PA RTK 3 = ACGIH A28 = TSCA 6 13 = IL RTK 4 = OSHAZ9 = TSCA 12b 14 = LA RTK 19 = RI RTK 10 = CA P65 CARC 15 = MI 2935 = TSCA 4

Code key: CARC=Carcinogen; REPRO=Reproductive

#### OTHER INFORMATION **SECTION 16**

N/D = Not determined. N/A = Not applicable

### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Changes:

Section 06: Notification Procedures - Header was modified.

Section 13: Empty Container Warning was modified.

Section 08: Hand Protection was modified.

Section 11: Dermal Lethality Test Data was modified. Section 11: Oral Lethality Test Data was modified.

Section 05: Hazardous Combustion Products was modified.

Section 15: List Citations Table was modified.

Section 15: List Citation Table - Header was modified.

Section 16: Code to MHCs was modified.

Section 06: Notification Procedures was modified.

Section 01: Company Contact Methods Sorted by Priority was modified.

Section 15: TSCA Class 2 Statement was deleted.

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.... MOBIL MATERIAL SAFETY DATA BULLETIN

42011 DRIGINAL PAGE 1

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

\* MOBIL SPECIAL 104-32 EXPORT

SUPPLIER:

10HIL BIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

MULITERADE ENGINE OIL

HEALTH EMERGENCY TELEPHONE:

(212)BR3-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMIREC)

OTHER DESIGNATION:

.CTRN 400119)

\*\*\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

VISCOSITY:

AT 100 F. SUS

46 C. CS

CIULIJ C.C MIZA 0.JJR:

VISCOSITY:

343.5 4T 211 F. 3US

66.8 4T 100 C. CS

MILO

63.3 RELATIVE DENSITY: 15/4 C SOLUBILITY IN WATER:

10.8

3.43

. NEGLIGIBLE

PH: ΝΔ

MELTING POINT: F(C)

NA

POUR POINT: F(C)

-35(-37)

B)[L[NG POINT: F(C) >699 (316)

FLASH POINT: F(C) (METHOD)

493(204) (ASTM 0-92)

VAPOR PRESSURE:MM HG 200 -

\*\*\*\*\*\*\*\*\*\*\* INGREDIENTS \*\*\*\*\*\*\*

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DFCOMPOSES

> 89

WT PCT TLV(TWA): MG/M3 CAPPRUXI

HAZARDOUS INGREDIENTS: 1

NUNE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

< 20

ADDITIVES AND/OR OTHER INGREDS.

NOTE: TEVS SHOWN FOR GUIDANCE ONLY. FULLOW APPLICABLE REGULATIONS.

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**1** 

TOXICOLOGICAL DATA

ACUTE

LOGUE > 5 G/KG D/10 RATS DIED AT THIS DOSAGE LEVEL. CONSIDERED TO BE NO MORE THAN SLIGHTLY TOXIC HASED ON SINGLE DOSE LEVEL TESTING AT 5 G/KG.

CERMAL TOXICITY: (RAHBITS)

L)53: > 2 G/KG 0/66 RABBITS DIED AT THIS DOSAGE LEVEL. CONSIDERED TO BE NO MORE THAN SLIGHTLY TOXIC BASED ON SINGLE DOSE LEVEL TESTING AT 2 G/KG.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OF REASONABLY FORESEEABLE MANDLING. USE. OR MISUSE OF THIS PRODUCT.

EYE IRRITATION: (RABBITS)

CAUSED BLIGHT IRRITATION TO MAHBITS. EYE IRRITATION SCORES: 10.7 AT 1 HOURS, 7.8 AT 24 HOURS, 1.8 AT 48 HOURS, 1.0 AT 4 DAYS

SKIN IRRITATION: (RABBITS)
SLIGHTLY IRRITATING TO RABBITS. PRIMARY IRRITATION SCORE: 1.5/8

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

NUNE

FILE CODES:

(FILL 40: MIN514AC2102) MHC: 1 1 N4 1 1 US81-165E-341-75 APPROVE 8506

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. REVISED:
MANAGER OF PRODUCT SAFETY INFORMATION PHONE: (212) 483-5594 127 1/81

MOBIL MATERIAL SAFETY DATA BULLETIN

PAGE 1 612524 ORIGINAL

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

PRODUCT IDENTIFICATION -----MOBILGAPO 442

SUPPLIER:

MOHIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

MARINE DIESEL LUBE

HEALTH EMERGENCY TELEPHONE:

(212) AS 3-4411

TRANSPORT EMERGENCY TELEPHONE:

(836)424-9300 (CHEMTREC)

GTHER DESIGNATION:

(TRN 602524)

\*\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

CIUDIA REBRA ARRO

VISCUSITY: AT 103 F. SUS 675.0

AT 40 C. CS

VISCOSITY: AL 212 F. SUS

4T 100 C. CS

CLIM

OUDR:

SOLUBILITY IN WATER:

13.7

129.0

RELATIVE DENSITY: 15/4 C

0.918

BOILING POINT: F(C)

>633(316)

NEGLIGIBLE POUR POINT: F(C)

PH:

MELTING POINT: F(C)

13(-12)

FLASH FOINT: F(C) (METHOD)

TLV(TGA):

74 - C

>441(227) (ASTM 0-92)

VAPOR PRESSURE: MM HG 200

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

ARRES INGREDIENTS PRACES ARREST

MG/M3

HT PCT (APPRGX)

HAZARDOUS INGREDIENTS:

NINE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 8C

ADDITIVES AND/OR OTHER INGREDS.

< 20

NOTE: THIS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANTAHILLTY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED 48 A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEGURES SHOULD HE PROVIDED TO HANDLERS AND USERS.

#### ACUTE

ORAL TOXICITY: (RATS)

ANDIOR THE COMPONENTS.

CERMAL FOXICITY: (RABBITS)

SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RANGITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMAPY)

OTHER DATA

FILE CDDES:

(FILL V): RV170703002 ) MHC: 1 + 1 + NA 0 + 1 + US82-128E-465-81 APPROVE
8 + 22

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION + PHONE: (212)883-5594 1/21/83

MOBIL DIL CORFORATION 15 EAST 42ND STREET LENVIRONATATAL AFFAIRS AND TOXICOLOGY DEPT. NEW YORK, N.Y. INCIT (USA)

> PRODUCT IDENTIFICATION MOHILGARD 412

SUPPLIER: MOBIL DIL CORP. CHEMICAL MAMES AND SYMONYMS:

PET. HYDROCARHONS AND ADDITIVES

USE OR DESCRIPTION: DIESEL ENGINE DILL

HEALTH EMERGENCY TELEPHONE: (212)883-4411TRANSPORT EMERGENCY TELEPHONE: -(80 3) 424-9300 (CHEMIREC) OTHER DESIGNATION:

AT 40 C. CS

152.3

14.3

PH:

(TRN 602482)

\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE: DARK AMBER LIQUID

MILD RELATIVE DEVSITY: 15/4 C SOLUBILITY IN WATER:

0.395 MELTING PULLT: F(C)

NA BILLING POINT: F(C) >500 (316)

VAPOR PRESSURE: MM HG 200

AT 100 F. SUS VISCOSITY:

€10.0 VISCOSITY: AT 210 F. SUS ...

AT 100 C. CS 77.0

NEGLIGIBLE

POUR POINT: F(C) 10 (-12)

FLASH POINT: F(C) (METHOD) 450(232) (ASTM P-12)

NATION TO APPLICABLE NETWOT ESTABLISHED DEDECOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*\*

> MT PCT TLV(TWA): MG/M3 PPM (APPROX)

HAZARDOUS INGREDIENTS: NUNE

NOV-HAZARODUS INGREDIENTS: REFINED MINERAL OILS ADDITIVES ANCIOR OTHER INGREDS.

NOTE: PLVS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND HE EXPRESSIVEDISCIALM ALL MARRANTIES OF EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PUFFOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE VARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

#### ACUIF

ORAL TOXICITY: (RATS)

NONTOXIC(ESTIMATED) --- MASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL FOXICITY: (RABBITS)

NONTOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE CUMPONENTS.

INHALATION FORICITY: (RATS) ...

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FURESECABLE HANDLING, USE, OR MISUSE OF THIS PRODUCT.

EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT.
---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRUNIC OR SPECIALIZED (SUMMARY)

OTHER CATA

FILE CODES:

(FILL NO: RN154803201 ) MHC: 0+ 0+ NA 0+ 1+ US82-128E-179-77 APPROVE
8440

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594 2/ 8/83

MOBIL OIL CURPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

602458 OR/G/NAL 150 EAST, 42ND STREET NEW YORK. N.Y. 10017 (USA)

PAGE 1

### PRODUCT TOENTIFICATION ... MOBILGARD, 593

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL MARES AND SYNONYMS:

PET. HYDROCARHONS AND ADDITIVES

USE OR DESCRIPTION:

MARINE CYLINDER DIL

HEALTH EMERGENCY TELEPHONE: (212)883-4411 TRANSPORT EMERGENCY TELEPHONE:

(809)424-9300 (CHEMTREC)

OTHER DESIGNATION:

. (TRN 602458)

\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

VISCOSITY: AT 100 F. SUS 1020.7

AT 40 C. CS

DARK AMBER LIGUID 0003:

VISCOSITY:

200.0 AT 210 F. SUS AT 100 C. CS

37.0

SOLUBILITY IN WATER:

19.0

Y[L]

RELATIVE DENSITY: 1574 C 7.93

NEGLIGIBLE

PH:

MELTING POINT: F(C)

NA

POUR POINT: F(C)

25 (-4) FLASH POINT: F(C) (METHOD)

BUILING POINT: F(C) 2631(316)

450(232) (ASTM D-92) .

VAPOR PRESSURE:MM HG 200

MA=NOT APPLICABLE NE=NUT ESTABLISHED D=DECOMPOSES

INGREDIENTS \*\*\*\*\*\*\*\*\*

TLV(THA): MG/M3 WT PCT PPN

(APPROX)

HAZAROJUS INGREDIENTS:

NONE

NUN-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

< 15

ADDITIVES ANCIOR OTHER INGREDS.

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHJUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND HE EXPRESSLY DISCLAIM ALL. MARKANITES DE EVERY KIND AND NATURE. INCLUDING MARRANITES OF MERCHANIABILLITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULFABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALLO PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

TOXICOLOGICAL DATA

#### ACUTE

ORAL TOXICITY: (RATS)

SLIGHTLY FUXICEESTIMATED) --- HASED IN TESTING OF STATLAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY: (RABHITS)

SLIGHTLY TOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS
AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT.

EYE IRRITATION: (RABBITS)

MAY CAUSE SLIGHT THRITATION. --- HASED ON TESTING OF SIMILAR PROJUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (HAHBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

NUNE

FILE CODES:

(FILE 10: RN198853101 ) MHC: 1 + 1 + NA 1 + 1 + US82-128E-176-77 APPROVE
8405

ENVIRONMENTAL AFFAIRS AND FOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION PHONE: (212)883-5594

1/ 4/83

MUBIL MATERIAL SAFETY DATA BULLETIN

63194R PAGE 1 ÓRIGINAL

MUBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 FAST 42NO STREET NEW YORK, N.Y. 10017 (USA)

PRODUCT FUENTIFICATION- -----MOBIL VOCO ENGINE OIL NO. 1

SUPPLIER:

MOBIL DIE CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

SPECIAL MACHINE OIL

- HEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE: (860)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 601948)

\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

GIUGIL C.F PTCA

VISCOSITY:

AT 100 F. SUS 125.3

AT 40 C. CS

ODDRE.

VISCOSILY: AT 218 F. SUS

77.0

AT 100 C. CS

MILD

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN WATER:

14.2 PH:

1.115

NEGLIGIBLE

140.0

MELTING POINT: F(C)

NΔ

POUR POINT: F(C). 10(-12)

BOILING POINT: FICE

FLASH POINT: F(C) (METHOD)

>600 (316)

>380(193) (ASTM D-92)

VAPOR PRESSURE:MM HG 200

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

INGREDIENTS \*\*\*\*\*\*\*\*\*

MT PCT TEV(THA): MG/M3 PPM (APPROX)

HAZARDOUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL OILS

> 75 < 25

ADDITIVES AND/OR OTHER INGREDS.

NOTE: TEVS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND ME EXPRESSLY DISCLAIM ALL <u>HARRANTIES OF EVERY KIND AND NATURE. INCLUDING HARRANTIES OF</u> MERCHANIAHILITY AND FITNESS FOR A PARTICULAR PURFOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

TOXICOLOGICAL DATA

ACUTE

# ORAL-TOXICITY: <- AFG-

LOSD: > 5 G/KG 1/10 RATS DIED AT THIS DOSAGE LEVEL. SLIGHTLY TOXIC(ESTIMATED) --- HASED ON FESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TUXICITY: (RABBITS)

LOSU: > 2 G/KG J/10 RABBITS DIED AT THIS DOSAGE LEVEL. SLIGHTLY TOXIC(ESTIMATED) ---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NJT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FURSEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABHITS)

EXPECTED TO BE NON-IRRITATING. EYE IRRITATION SCORES: 1.0 AT 24 HJURS. 3 AT 48 HJURS. G AT 72 HOURS---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.
SKIN IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRUNIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: MTL19663101 ) MHC: 1 \* 1 \* NA 0 \* 0 \* US82-084E-231-73 APPROVE
8272

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION PHONE: (212)883-5594

9/13/82

MODII

MOBIL MATERIAL SAFETY DATA BULLETIN

601880 PAGE 1

MOSIL JIL CORPORATION

SULLETIN ORIGINAL 150 EAST 42ND STREETL NEW YORK. N.Y. 10017 (USA)

PROSECT TOCALLY MOBIL DIE OIL 135

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

USE OR DESCRIPTION:

CUMPRESSOR LUBRICATING OIL

HEALTH EMERGENCY TELEPHONE:

(212)863-4411

TRANSPORT EMERGENCY TELEPHONE: (801)424-9300 (CHEMTREC)

OTHER DESIGNATION: ...

(TRN 601880)

\*\*\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES \*\*\*\*\*\*\*

APPEARANCE:

CIUDIA C.E MICA

VISCOSITY:

AT 102 F. SUS 1535.0

AT 40 C. CS 290.0

00333

AT 213 F. SUS VISCOSITY: 83.5

AT 160 C. C3 295.0

RELATIVE DENSITY: 15/4 C SOLUBILITY IN MATER:

NEGLIGIBLE

PH:

1.722 MELTING POINT: F(C)

MILD

A V

POUR POINT: F(C)

15(-7)

BOILING POINT: FCC)

>531(316)

FLASH POINT: F(C) (METHOD)

>435(224) (ASTM D-92)

TLV(TWA):

VAPOR PRESSURE:MM HG 200

< .1

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

INGREDIENTS \*\*\*\*\*\*\*\*\*\*\*

D D M

MT PCT (APPROX)

HAZARDOUS INGREDIENTS:

NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS.

> 95

ADDITIVES ANCIOR OTHER INGREDS.

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT BUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES, WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

#### ACUTE

ORAL TOXICITY: (RATS)

TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE

DERMAL TOXICITY: (RABBITS)

LJ50: > 2 J/KG J/10 RABHITS DIED AT THIS DOSAGE LEVEL. SLIGHTLY TJKIC(ESTIMATED) ---HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPUNENTS.

TATES : YTIDIKE I NEITALAHNI

ANT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. EYE IRRITATION SCORES: 1.0 AT 24 HJURS. U AT 48 HOURS. O AT 72 HOURS.—-BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: CRARRITS.

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE CUMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: TSD191)51 ) MHC: 1\* 1\* NA 0\* J\* US83-031E-222-73 APPROVE
8504
ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION\* PHONE: (212)883-5594 4/13/83

MODIL

## MUBIL MATERIAL SAFETY DATA BULLETIN

601 1080 RIGINAL PAGE 1

HUBIL DIL CORFORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

PRODUCT FUENTIFICATION ..... GARGOYLE ARCTIC UIL FATRA HEAVY

SUPPLIER:

WORLF DIF COME.

CHEMICAL NAMES AND SYNONYMS:

PET. WORDCARHONS AND ADDITIVES

USE OR DESCRIPTION:

LUBRICANT

HEALTH EMERGENCY TELEPHONE: (212) 833-4411

TRANSPORT EMERGENCY TELEPHONE:

(805)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TPN 601708)

\*\*\*\*\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES | #\*\*\*\*\*

APPEARANCE:

ASTM 4.3 LIQUID

VISCOSITY:

AT 107 F. SUS 332.5

AT 40 C+ C5

0.108:

VISCOSITY:

AT 210 F. SUS

54.3 AT 100 C. CS

MILJ

RELATIVE DENSITY: 15/4 C-

SOLUBILITY IN WATER:

7 - 1

J. d96

NEGLIGIBLE

PH: NA

MELTING POINT: F(C)

>600(316)

NΔ

POUR POINT: F(C)

-10(-23)

BUILING POINT: FICE

FLASH POINT: F(C) (METHOD)

>375(191) (ASTM 0-92)

VAPUR PRESSURE:MM HG 200

NA=NUT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

INGREDIENTS \*\*\*\*\*\*\*\*\*\*

WT PCT TLV(TWA):

. . (APPROX)

HAZARDOUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 95

ADDITIVES ANCYOR OTHER INGREDS.

NOTE: THE SHEAR FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

- INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND GUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES OF EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULFABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

TOXICOLOGICAL DATA

#### ACUTE

SLIGHTLY TOXIC (ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TOXICLTY: (RABBITS) SLIGHTLY TOXIC (ESTIMATED) --- BASED ON TESTING UF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS) NOT APPLICABLE --- HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT.

EYE LARITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN LARLITATION: LRABBLISA MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES: (FILL 10: 1300221022 1 MHC: 1 + 1 + NA C + 1 + USB2-384NONE APPROVE ENVIRONMENTAL AFFAIRS AND FOXICULOGY DEPT. REVISED: MANAGER OF PRODUCT SAFETY INFORMATION. PHONE: (212)883-5594 9/14/82

601690 PAGE 1

### MOBIL MATERIAL SAFETY DATA BULLETIN

MOBIL DIL CORFORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

45.C

PH:

5.8

### PRODUCT INCHTIFICATION GARGOYLE ARCTIC DIL C HEAVY

SUPPLIER: MOBIL DIL CORP. CHEMICAL NAMES AND SYNONYMS: PET. HYDRUCARSONS AND ADDITIVES USE OR DESCRIPTION: COMPRESSOR LUBRICANT

HEALTH EMERGENCY TELEPHONE: (212) 833-4411 TRANSPORT EMERGENCY TELEPHONF: (800)424-9300 (CHEMTREC) OTHER DESIGNATION: (TRN 601693)

\*\*\*\*\*\*\*\*\*\* PYPICAL CHEMICAL AND PHYSICAL PROPERTIES \*\*\*\*\*\*\*

APPEARANCE: ASTA +.0 LIQUID

JUJA:

MILD RELATIVE DENSITY: 15/4 C

0.91 MELTING POINT: F(C)

EDILING POINT: F(C) >607 (316)

NA

VAPOR PRESSURE:MM HG 200

AT 133 F. SUS VISCOSITY: AT 40 C+ CC

230.0. VISCUSITY: AT 210 F. SUS AT 105 C. CS

45.5 SOLUBILITY IN WATER: NEGLIGIBLE

POUR POINT: F(C) -35(-37)

FLASH POINT: F(C) (METHOD) >540(171) (ASTM: 0-92)

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*

> MT POT. TEV(TWA): MG/M3 (APPROX)

HAZAROJUS INGREDIENTS: NUME

NON-HAZARDOUS INGREDIENTS: REFINED MINERAL DILST ADDITIVES AND/OR OTHER INGREDS.

NOTE: THYS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT BUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND DUR CONTROL: ALL RISKS OF USE OF THE FRODUCT ARE THEREFORE ASSUMED BY THE USER AND HE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALLO PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING. PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

\*\*\*\* TOXICOLOGICAL DATA

#### ACUTE

TRAL FORECIFY: (RAIS)

SLIGHTLY FOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS

CERMAL TUXICITY: (RABBITS)

SLIGHTLY TORIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS

INHALATION TOXICITY: (RAIS)

NOT APPLICABLE ---HARMEUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY EYE LRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRUNIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: TSD345032 ) MHC: 1 \* 1 \* NA J \* 1 \* US82-251NONE APPROVE
8474
ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)893-5594

3/14/83

60"146"6" PAGE 1

### MOBIL MATERIAL SAFETY DATA BULLETIN

MUBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

PRODUCT IDENTIFICATION MOBIL VACUOLINE 145

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET: HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

LUBRICANT

HEALTH EMERGENCY TELEPHONE:

(212)843-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMIREC)

OTHER DESIGNATION:

(TRN 601468)

\*\* \* \* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

DARK ATHER LIJUID

VISCOSITY:

VISCOSITY:

AT 103 F. SUS

43 C. CS

2400.0

AT 210 F. SUS 142.0

450.0 AT 100 C. CS

UDUR: 41LJ.

RELATIVE DENSITY: 15/4 C - SOLUBILITY IN WATER:

29.0 :HG

1.812

MELTING POINT: F(C)

NEGLIGIBLE

POUR POINT: F(C)

10 (-12)

BOILING POINT: F(C) >500 (316)

VAPOR PRESSURE: MM 4G 23C

. 3.1

>505(263) (ASTM D-92)

FLASH POINT: F(C) (METHOD)

NATINGE APPLICABLE NETHOT ESTABLISHED DEDECOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*\*\*

> WT PCT TLV(TWA): MG/M3

(APPROX)

HAZARDOUS INGREDIENTS:

NUME

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

ADDITIVES AND/OR OTHER INGREDS. < 5

NOTE: TLVS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD, FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL JARRANTIES OF EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PADCEDURES SHOULD HE PROVIDED TO HANDLERS AND USERS.

TOXICOLOGICAL DATA

ACUTE

URAL IJAICITY. TRATS NONTOKIC(ESTIMATED) ---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: GRABBITS) NUNTURICLESTIMATED) --- BASED ON TESTIMS OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS) NOT APPLICABLE --- HARMFUL CONCENTRATIONS OF MISTS AND/OR VAFORS ARE UNLIKELY TO HE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY

FORESEEAHLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-TRRITATING. --- BASED ON TESTING OF SIMILAR EHOUDCIS AND ACK THE COMPONENTS.

SKIN IRRETATION: CRABBITS! E (PECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE COUSS: KELLL NO: MILL26K101 - ) MHC: 2\* 0\* NA 5\* 4\* US80-125 NONE APPROVE ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. MANAGER OF PRODUCT SAFETY INFORMATION. PHONE: (212)883-5594 REVISED: 9/15/82

HOBIL MATERIAL SAFETY DATA HULLETIN

150 EAST 42ND STREET

601419

PAGE 1

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

NEW YORK. N.Y. 10017 (USA)

PRODUCT IDENTIFICATION ... \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MOBIL VACUOLINE 133

SUPPLIER: MOBIL DIL CURP. CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES USE OR DESCRIPTION:

HEALTH EMERGENCY TELEPHONE: (212) 88 3-4411 TRANSPORT EMERGENCY TELEPHONE: (800)424-9300 (CHEMTREC) OTHER DESIGNATION: -(TRN 601419)

\*\*\*\*\*\*\*\* PYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

LUBRICANT

VISCUSITY: AT 100 F. SUS 4T 40 C. CS

238.5

ASTM S.O LIJUID

1105.0 VISCOSITY: AT 211 F. SUS

4T 100 C. 05

4(L)

91.7

18.4

RELATIVE DENSITY: 15/4 C 1.332

SOLUBILITY IN WATER: NEGLIGIBLE PH:

MELTING POINT: FCC)

POUR POINT: F(C)

N'Δ

29 (-7)

BOILING POINT: F(C)

FLASH POINT: F(C) (METHOD)

630(316)

400(204) (ASTM D-92)

TLV(TWA):

VAPUR PRESSURE: MY HG 23C

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* INGREDIENTS \*\*\*\*\*\*\*

WT PCT

MG/M3

(APPROX)

HAZARDOUS INGREDIENTS: N)Nc

NON-HAZARDOUS INGREDIENTS: REFINED MINERAL OILS

> 95

ADDITIVES AND/OR OTHER INGREDS.

5

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES OF EVERY KIND AND MATURE. INCLUDING WARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE <u>USC OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A </u> RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE HARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

TOXICOLOGICAL DATA

#### ACUTE

LUBD: > 15 G/KG NONTOXICCESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY: (RABBITS)

LD50: > 5 3/KG NONTOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRIDUCTS AND/OR THE CUMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY EYE LARITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILE NO: MTL126 ) MHC: 0 \* 0 \* NA 0 \* 0 \* NONE APPROVE

8422
ENVIRONMENTAL AFFAIRS AND TUXICULOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION PHONE: (212)883-5594 1/21/83

### MUBIL MATERIAL SAFETY DATA BULLETIN

601328 PIGINAL

MOBIL DIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. 150 EAST 42ND STREET NEW YORK, N.Y. 10017 (USA)

PRODUCE TO ENERGY TO THE TON MOBIL VACUULINE 1409

SUPPLIER:

MOHIL OIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

MACHINE TOOL LUBRICANT

HEALTH EMERGENCY TELEPHONE:

(212) 883-4411

TRANSPORT EMERGENCY TELEPHONE:

(809)424-9300 (CHEMTREC)

OTHER DESIGNATION:

- (TRN 601328)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

0008:

VISCOSITY: AT 100 F. SUS

- A T 40 C. C

TASEM 3.3 LIQUID

VISCOSITY:

335.0 AT 210 F. SUS.

55.0

55.0 100 C. CS

MIL)

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN WATER:

8.6

3.834

MELTING POINT: F(C) NΔ

NEGLIGIBLE

PH: NA

FOUR POINT: F(C)

20 (-7)

BOILING POINT: F(C)

>500 (316)

FLASH POINT: F(C) (METHOD) □ 390(199) (ASTM D-92)

VAPOR PRESSURE:MM HG 200

< .1

NA=NOT APPLICABLE

NE=NOT ESTABLISHED D=DECOMPOSES

INGREDIENTS

MT PCT TLV(TWA): MG/M3 PPM

(APPROX)

HAZARDJUS INGREDIENTS: NONE

NON-HAZARDJUS INGREDIENTS:

REFINED MINERAL OILS

ADDITIVES AND/OR OTHER INGREDS.

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR WITHOUT GUARANTEE' PARTICULAR USES ARE REYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE FHEREFORE ASSUMED BY THE USER AND <u>WE EXPRESSLY DISCLAIM ALL</u> WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FUR USES WHICH INFPINGE VALID PATENTS OR AS EXTENDING APPROPRIATE MARNINGS AND SAFE HANDLING LICENSE UNDER VALID PATENTS. PRICEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

TOXICOLOGICAL DATA

### ACUTE

ORAE-TOXECITY: (RAIS) ... NONTOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBITS) NONTOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION FOXICITY: (RATS) NOT APPLICABLE --- HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OF REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. ETE IRRITATION: (RAHBITS)

EXPECTED TO HE NON-IRRITATING. EYE IRRITATION SCORES: 0 AT 24 HOURS. ) AT 48 HOURS. 3 AT 72 HOURS---BASED ON TESTING OF SIMILAR PRODUCTS AND/JR THE COMPONENTS. SKIN TRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. PRIMARY IRRITATION SCOPE: C/1--- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRUNIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES: (FILL NO: MTL1500532 # MHC: 0 + 0 + NA C + 3+ US81-185NONE APPROVE ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. MANAGER-OF PRODUCT SAFETY INFORMATION. PHONE: (212)883-5594 REVISED: 1/ 6/82

#### MUBIL MATERIAL SAFETY DATA BULLETIN

MOBIL OIL CURPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

601310

PRODUCT IDENTIFICATION MOBIL VACUOLINE 1435

SUPPLIER:

. MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PETROLEUM HYDROCARBONS

USE OR DESCRIPTION:

MACHINE TOOL LUBRICANT

MEALTH EMERGENCY TELEPHONE: (212) 853-4411

TRANSPORT EMERGENCY TELEPHONE:

(8801424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 601310)

\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

0074:

4314 3.3 LIQUID

VISCOSITY:

AT 10? F. SUS 155.C

AT 40 C. CS

VISCOSITY:

AT 210 F. SUS

30.C AT 100 C+ CS

MARKETABLE

43.0

TLV(TWA):

SOLUBILITY IN WATER:

5.0 PH:

RELATIVE DENSITY: 15/4 C J. 576

POUR POINT: F(C)

**VEGLIGIBLE** 

MELTING POINT: FICE

N A

15(-9)

BOILING POINT: F(C)

>600 (3161

FLASH POINT: F(C) (METHOD)

385(196) (ASIM D-92)

VAPOR PRESSURE: NM HG 20C

NE=NOT ESTABLISHED D=DECOMPOSES NA=NOT APPLICABLE

INGREDIENTS \*\*\*\*\*\*\*\*\*

MG/M3

HT PCT (APPROXI

HAZARDOUS INGREDIENTS:

NUNE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 90

ADDITIVES AND/OR OTHER INGREDS.

< 10

NOTE: THYS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES DE EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES-WHICH INFRINGE VALLO PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

# MOBIL VACUOLINE 1405

651313 PAGE 4

TOXICOLOGICAL DATA

#### ACUTE

GRAL TOXICITY: (RATS)

NONTUKIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TURICITY: (RABBITS)

NUNTURICLESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE CUMPINENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPOPS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEAGLE HANCLING. USE. OR MISUSE OF THIS PRODUCT. EYE [RRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBIIS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC UR SPECIALIZED (SUMMARY)

OTHER DATA

SACK

FILE CODES:

(FILL NO: MTL1504122 ) MHC: 0 \* 0 \* NA 0 \* 0 \* US82-119NONE

837)

ENVIRONMENTAL AFFAIRS AND TOWNSDIEGO DEET

APPROVE

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.
MANAGER OF PRODUCT SAFETY INFORMATION. PHONE: (212)883-5594

REVISED: 12/20/82

601260

PAGE 1

### MOBIL MATERIAL SAFETY DATA BULLETIN

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. 150 EAST 42ND STREET OF MEN YORK. N.Y. 10017 (USA),

### DOUGT IDENTIFICATION MOBIL 600 W CYLINDER DIL

SUPPLIER:

MOBIL DIE CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDRUCARHONS AND ADDITIVES

USE OR DESCRIPTION:

CYLINDER CIL

HEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMIREC)

OTHER DESIGNATION:

(TRN 601260)

\*\*\*\*\*\*\*\*\*\* \* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE: -

GIULLI 2.6 MICA

VISCUSITY: AT LOT F. SUS

2000.0

4T 40 C. CS

000R:

VISCOSITY: AT 210 F. SUS

375.0 AT 100 C. CS

140.0

MILJ

RELATIVE DENSITY: 15/4 C

3.331

SOLUBILITY IN JATER: NEGLIGIBLE PH:

MELTING POINT: F(C)

. NA

POUR POINT: F(C)

40 (4)

BOILING POINT: F(C)

**5511(316)** 

FLASH POINT: F(C) (METHOD)

543(282) (ASTM D-92)

VAPOR PRESSURE:MM AG 200

< .1

VA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

WT PCT TLV(TWA):

INGREDIENTS \*\*\*\*\*\*\*\*

MG/M3 PPM

CAPPROXI

HAZARDOUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

ADDITIVES AND/OR OTHER INGREDS.

NOTE: THUS SHEAN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT JUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANTABILITY AND FITHESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE JARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

# ACUTE -

NONTOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY: (RABBITS)

NONTOXICCESTIMATED) ---BASED ON FESTING OF SIMILAR PRODUCTS AND/OR
THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY EYE ERRITATION: (RABBETS)

PRODUCTS AND/OR THE COMPONENTS. --- BASED ON TESTING OF SIMILAR

SKIN IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASTO ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL VO: HN153903360 ) MHC: J+ 3+ NA E+ J+ US82-128E-188-76 APPROVE

8404

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594

1/ 3/83

PAGE 1

ORIGINAL

MOBIL DIL CURPCRATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

602565

PRODUCT -- IDENTIFICATION .MOBILGAND 424

SUPPLIER:

HUBIL DIL CURP.

CHEMICAL NAMES AND SYNONYMS:

PETROLEUM HYDROCARHONS

USE OR DESCRIPTION:

MARINE DIESEL LUBRICANT

HEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 602565)

\*\*\*\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIFS

VISCOSITY:

APPEARANCE:

DARK AMBER LIQUID

3304:

4[L) RELATIVE DENSITY: 1574 C

0.922

MELTING POINT: F(C)

VΔ

BOILING POINT: F(C)

>633 (316)

VAPOR PRESSURE: MY HG 20C

VISCOSITY: AT 100 F. SUS

830.0

AT 210 F. SUS

77.0

SOLUBILITY IN MATER:

VEGLIGIBLE

POUR POINT: F(C) 10(-12)

FLASH POINT: F(C) (METHOD)

440(227) (OPEN CUP)

VA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS

WT PCT TLV(TWA):

MG/M3

PEM

AT 40 C+ CS-

AT 100 C. CS

158.0

14.3

PH:

(APPROX)

HAZAROOUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL OILS

> 80

ADDITIVES AND/OR OTHER INGREDS.

< 20

NOTE: TLVS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES OF EVERY KIND AND NATURE. INCLUDING MARPANTIES DE MERCIANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE 28 SUITABILLITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

\*\*\* TOXICOLOGICAL DATA

### ACUTE

ORAL TIXECTLY: LRAISI

LUSD: > 5 G/KG G/10 RATS DIED AT THIS DOSAGE LEVEL. SLIGHTLY TOXIC(ESTIMATED) ---HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBITS)

LD5D: > 2 G/KG U/10 RABBITS DIED AT THIS DOSAGE LEVEL. SLIGHTLY TOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION FOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE MANDLING. USE. OR MISUSE OF THIS PRODUCT.

EXPECTED TO BE NON-IRRITATING. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

EKPECTED TO BE NON-IRRITATING. --- HASED ON TESTING OF SIMILAR
PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NC: RU10032H201 ) MHC: 1 \* 1 \* NA 0 \* ) \* US83-010E-223-73 APPROVE
8476

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. REVISED:
MANAGER OF PRODUCT SAFETY INFORMATION \* PHONE: (212)H83-5594 3/16/83

ORAGENAL 150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

602631

MOHIL DIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

> CONCE IDENTIFICATION MOBIL DIE 25

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNUNYMS:

PET. HYDRUCARHONS AND ADDITIVES

USE OR DESCRIPTION:

110 SIJUARCYH

HEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 602631)

\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

MILU

ODDR:

ASTM 4.0 LIQUID

VISCOSITY: AT 130 F. SUS AT 45 C. CS

VISCOSITY:

220.0 AT 210 F. SUS

42.0 AT 100 C. CS

47.0

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN WATER:

6.2 PH:

866.6

MELTING POINT: F(C)

NEGLIGIBLE POUR POINT: F(C)

NA

BUILING POINT: F(C)

-5(-21)

FLASH POINT: F(C) (METHOD)

VAPOR PRESSURE: MM //G 200 -

>600(316)

395(202) (ASTM D-92)

NATINOT APPLICABLE NETNOT ESTABLISHED DEDECOMPOSES

INGREDIENTS \*\*\*\*\*\*

WT PCT TLV(TWA):

MG/M3

(APPRCX)

HAZAROJUS INGREDIENTS: NUNE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 95

ADDITIVES AND/OR OTHER INGREDS. < 5

NOTE: THIS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN TEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND \*\* EXPRESSLY DISCLAIM ALL LARRANTIES DE EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD HE PROVIDED TO HANDLERS AND USERS.

ACUTE.

## CAAL LINCCEENA ANATON

SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS

CERMAL TOXICITY: (RABBITS)

SLIGHTLY TOXICLESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-ERRITATING. --- BASED ON TESTING OF SIMILAR' PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: RL1148410202) MHC: 1 \* 1 \* NA C \* 1 \* USB2-192NONE

8341

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594

1

APPROVE

REVISED: 11/ 1/82

60.2 68 PIGINAL PAGE 1

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

### PRODUCT IDENTIFICATION -----MOBIL DIE 13

SUPPLIER:

MOBIL JIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARHUNS AND ADDITIVES

USE OR DESCRIPTION:

HYDRAULIC OIL

HEALTH EMERGENCY TELEPHONE:

(212)383-4411

TRANSPORT EMERGENCY TELEPHONE:

(803)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 602680)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

AMHER LIQUID

VISCOSITY:

AT 100 F. SUS

40 C+ CS

150.0

46.5

VISCOSITY: AT 210 F. SUS

29.0 AT 100 C. CS

YIL

0003:

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN JATER:

6.1

0.341

NEGLIGIBLE

PH: NA .

MELTING POINT: F(C)

NA

POUR POINT: F(C)

-40 (-40)

BOILING POINT: F(C) 2600 (316)

FLASH POINT: F(C) (METHOD)

>330(166) (ASTM D-92)

VAPOR PRESSURE:MM HG 200

< .1

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

TLV(TUA):

INGREDIENTS

WT PCT . (APPROX)

MG/M3

PPM

HAZARDJUS INGREDIENTS:

NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL OILS

> 90

ADDITIVES AND/OR OTHER INGREDS.

NOTE: TLVS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITH JUT GUARANTEE. CONDITIONS OF USE AND SUITAHILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT. ARE THEREFORE ASSUMED BY THE USER AND ME EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY ALMO AND NATURE. INCLUDING WARRANTIES OF MERCHANTABLLITY AND FITNESS FOR A FARTICULAR FURPOSE IN RESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE HARNINGS AND SAFE HANDLING PROCEDURES SHOULD HE PROVIDED TO HANDLERS AND USERS.

\*\*\*\* TOXICOLOGICAL DATA

### ACUTE

FOREGETY - CRAFS L ....

LOSO: > 15 G/KG SLIGHTLY TOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRIDUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBITS)

LOS): > 8 G/KG SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXECTTY: (RATS)

NOT APPLICABLE --- HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY IN BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRIDUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: RN931C1+101 ) MHC: 1\* 1\* NA 0\* 0\* US82-251 NONE

APPROVE

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. MANAGER OF PRODUCT SAFETY INFORMATION. PHONE: (212)883-5594

REVISED: 3/14/83

602813

MUBIL MATERIAL SAFETY DATA BULLETIN

MUBIL DIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK, N.Y. 10017 (USA)

PRODUCT COENTIFICATION MOBILGARD 345

SUPPLIER:

MORIL DIE CORP.

CHEMICAL NAMES AND SYNDNYMS:

PET. HYDROCARSONS AND ADDITIVES

USE OR DESCRIPTION:

DIESEL ENGINE OIL

HEALTH EMERGENCY TELEPHONE:

.(212)883-4411

TRANSPORT EMERGENCY TELEPHONE: (800)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 602813)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

M(L)

OTARK THREE FIGHTO

VISCOSITY:

AT 100 F. SUS 560.0

AT 40 C. CS

3,700

VISCOSITY:

AT 210 F. SUS

TLV(TWA):

AT 100 C. CS

RELATIVE DENSITY: 15/4 C

67.0 SOLUBILITY IN WATER:

11.8

NA

3.395

NEGLIGIBLE

PH:

108-0

MELTING POINT: F(C) NA

POUR POINT: F(C)

3(-18)

BUILING POINT: FICE >533 (316)

FLASH POINT: F(C) (METHOD)

>446(230) (ASTM D-92)

VAPOR PRESSURE: MM HG 200

< .1

TA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*\*

WT PCT

MG/M3

PPM

(APPROX)

HAZARDJUS INGREDIENTS: NINE

N IN-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 85

ADDITIVES ANCIOR OTHER INGREDS.

< 15

NOTE: THE SHEAR FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE IR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

### ACUTE

### ORSE-FOXECTTY: (RATS)

SLIGHTLY TOXIC (ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL FOXICITY: (RABBITS)

SLIGHTLY TOXICLESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE CUMPONENTS.

INHALATION TOXICITY: (RATS)

LC50: >1 MG/L FOR 7 HRS. 3/13 RATS DIED AT THIS DOSAGE LEVEL. NONTOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

EYE IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION. --- BASED ON TESTING OF SIMILAR PROJUCTS AND/CR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- dased on testing of similar products and/or the components.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRUNIC OR SPECIALIZED (SUMMARY)

#### OTHER DATA

\*\*\*\*THIS MIXTURE OR A SIMILAR MIXTURE DID NOT RESULT IN ANY FATALITIES TO RAIS AT CONCENTRATIONS (SEE INHALATION TOXICITY ABOVE) SUBSTANTIALLY HIGHER THAN THE 5 MG/M3 TLV SUGGESTED FOR DIL MISTS.

FILE CJDES:

(FILL NG: RL 3254000002 ) MHC: 1 \* 1 \* 0 \* 1 \* 1 \* US82-084NONE APPROVE
8398

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION PHONE: (212)883-5594

12/28/82

603191 PAGE 1

# MOBIL MATERIAL SAFETY DATA BULLETIN

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. 150 EAST 42ND STREET NEW YORK, N.Y. 10017 (USA)

DOODUCT INCATICATION ............ MOBIL ALMO 527

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

ROCK URILL LUBRICANT

HEALTH EMERGENCY TELEPHONE: (212)883-4411

TRANSPORT EMERGENCY TELEPHONE: (80c)424-9300 (CHEMTREC)

OTHER DESIGNATION: (TRN 603191)

\*\*\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

ASIM 5.0 LIQUID.

VISCOSITY:

AT 132 F. SUS 550.0

AT 40 C+ CS

VISCOSITY:

AT 210 F. SUS

65.0

TLV(TWA):

4T 100 C. CS

MILO

ODOR:

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN MATER:

11.3

0.895

NEGLIGIBLE

PH:

105.C

MELTING POINT: F(C)

POUR POINT: F(C)

-20(-29)

BUILING POINT: F(C)

>6JJ (316)

\* FLASH POINT: F(C) (METHOD)

>393(199) (ASTM 0-92)

VAPOR PRESSURE: MM HG 200

< .1

NA=NOT APPLICABLE. NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS

WT PCT

PPM

(APPROX)

HAZARDOUS INGREDIENTS:

NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 95

ADDITIVES AND/OR OTHER INGREDS. C 5

CHLORINATED FARAFFIN WAX

NOTE: TEVS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFURMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. . CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND ME EXPRESSLY DISCLAIM ALL MARRANTIES DE EVERY KIND AND NATURE. INCLUDING MARRANTIES DE MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECUMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

#### ACUTE

ORAL TOXICITY: (RAIS)

LD50: > 5 G/KG SLIGHTLY TOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBITS)

LJ5J: > 2 J/KG SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY EYE IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/CR THE COMPONENTS.

SKIN LRRITATION: GRABBITS

EAPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE, AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: ISD029013 / MHC: 1 \* 1 \* NA 1 \* 5 \* US82-119E-171-79 APPROVE
8323
ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594 10/14/82

60,5,758 PAGE 1 ORIGINAL

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET' NEW YORK . N.Y. 10017 (USA)

-PHODUCT IDENTIFICATION ... ........ MOBILFLUID 355

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARHONS AND ADDITIVES

USE OR DESCRIPTION: -

HYDRAULIC FLUID

HEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE: (866)424-9330 (CHEMTREC)

THER DESIGNATION:

(TRN 605758)

\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

ASIM 3.5 LIQUID

VISCOSITY: AT 105 F. SUS 175.0

AT 40 C. CS

0.138:

VISCOSITY:

AT 210 F. SUS.

TLV(TWA):

30.0 AT 100 C. CS

MILD

52.0 SOLUBILITY IN WATER:

7.6

NA

RELATIVE DENSITY: 15/4 C 0.387

- NEGLIGIBLE

PH:

MELTING POINT: F(C)

N4

POUR POINT: F(C)

-40(-40)

BUILING POINT: F(C)

>600(316)

FLASH POINT: F(C) (METHOD) >370(188) (ASTM D-92)

VAPOR PRESSURE:MM HG 200.

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS

MG/M3

(APPROX)

HT PCT

HAZARDOUS INGREDIENTS: NONE

NON-HAZAROOUS INGREDIENTS:

REFINED MINERAL OILS

> 961

ADDITIVES AND/OR OTHER INGREDS. < 10

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN MEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES DE EVERY KIND AND NATURE. INCLUDING JARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURFOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FUR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE HARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

### ACUTE:

CRAL TUXTCITY: TRATS) -

LOSO: > 15 G/KG NONTOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBITS)

LUSD: > 5 G/KG MONTOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT.
EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-ERRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

APPROVE

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.
MANAGER OF PRODUCT SAFETY INFORMATION. PHONE: (212)883-5594

REVISED: 1/ 8/82

606103 PIGPAGE 1 MOBIL DIL CORPORATION 150 EAST 42ND STREET ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. NEW YORK - N.Y. 10017 (USA)

> PRODUCT IDENTIFICATION MOBIL VACUOLINE 337

SUPPLIER: MOBIL DIE CORP. CHEMICAL NAMES AND SYNONYMS: PET. HY DROCARHONS AND ADDITIVES USE OR DESCRIPTION:

HEALTH EMERGENCY TELEPHONE: (212) 88 3-4411 TRANSPURT EMERGENCY TELEPHONE: (800)424-9300 (CHEMTREC) OTHER DESIGNATION: (TRN 606103)

\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

ASTM 7.5 LIQUID

VISCOSITY: AT LOU F. SUS

AT 40 C+ CS

.0003:

1734.0 VISCUSITY: AT 210 F. SUS

320.0 AT 100 C. CS

MILU

119.0 SOLUBILITY IN JATER:

24.1

RELATIVE DENSITY: 15/4 C J.832

NEGLIGIBLE

PH:

MELTING POINT: F(C) NA

LUBRICANT

POUR POINT: F(C)

BOILING POINT: FICE >611(316)

10 (-12) FLASH POINT: F(C) (METHOD)

463(238) (ASTM D-92)

VAPOR PRESSURE:MM H6 29C

NA = NOT APPLICABLE NE=NOT ESTABLISHED D=DFCOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*\*\*

> MT PCT TEV(THA): MG/M3 PPM (APPROX)

HAZARDJUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS: REFINED MINERAL DILS

> 95

ADDITIVES ANCIOR OTHER INGREDS.

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANILES DE EVERY KIND AND MATURE. INCLUDING MARRANILES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE JR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALLO PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

ACUTE

ORAL TOXECTTY: (RAFS)

SLIGHTLY TOXIC (ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBITS)

SLIGHTLY TOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FURESCEASE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: HA1991C201 ) MHC: 1 + 1 + NA 2 + 1 + US81-1925-220-72 APPROVE
8231

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION + PHONE: (212)883-5594

7/14/82

516665

# MOBIL MATERIAL SAFETY DATA HULLETIN

MOBIL OIL CURPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

UCT TOENTIFICATION

MOBILGARD 300.

SUPPLIER:

MUBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARHONS AND ADDITIVES

USE OR DESCRIPTION:

MARINE DIESEL ENGINE DIL

HEALTH EMERGENCY TELEPHONE:

(212)31,3-4411

TRANSPORT EMERGENCY TELEPHONE: (800)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 506665)

\*\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

GIUGIJ REBPA AFAC

VISCOSITY:

AT 100 F. SUS

AT 40 C. CS

VISCOSITY:

580.0 AT 210 F. SUS

114.0 AT 100 C. C3

66 · C

11.5

J.894

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN WATER: NEGLIGIBLE

PH:

MELTING POINT: F(C)

0104:

N4

TYPICAL LUBE

POUR POINT: F(C)

151-91

BOILING POINT: F(C)

>600(316)

VIPUR PRESSURE: MM HG 2JC

FLASH POINT: F(C) (METHOD)

>449(227) (ASTH D-3278)

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

TLV(TWA):

\*\*\*\* INGREDIENTS \*\*\*\*\*

MG/M3

HT PCT (APPROX)

HAZARUJUS INGREDIENTS:

NONE

NUN-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 95

ADDITIVES AND/OR OTHER INGREDS. < 10

NUTE: TEVS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL BARRANTIES DE EVERY KIND AND NATURE. INCLUDING ARRANTIES OF MERCIANIABLLITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE JARNINGS AND SAFE HANDLING PRICEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

MOBILGARD 507

606723 PAGE 4

TOXICOLOGICAL DATA

### ACUTE

URAL TUXICITY: TRAIST

SLIGHTLY TOXICLESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS ANJIJR THE COMPONENTS.

CERMAL FOXICITY: (RABBITS)

SLIGHTLY TOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION FOXICITY: (RATS)

NOT APPLICABLE --- HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRIDUCTS AND/CR THE COMPONENTS.

SKIN IRRITATION: (RABBITS) EXPECTED TO BE NON-IRRITATING. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/CR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES: (FILL NO: RV10831001 / MHC: 1 \* 1 \* NA 0 \* 1 \* US83-013NONE 8513 ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212) 893-5594

APPROVE

REVISED: 4/12/83

60672 PRIGINAL 150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

AT 41 C. CS

220.0

AT 163 C. CS

1 4 4

·PH:

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

> MOBILGARD 507

SUPPLIER:

MOHIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

DIESEL ENGINE OIL

HEALTH EMERGENCY TELEPHONE: (212)883-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMTREC) OTHER DESIGNATION:

CTRN 606723)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

AMBER LIGUID

H[L] RELATIVE DENSITY: 15/4 C

1.895

MELTING POINT: F(C) VA

BOILING POINT: F(C)

>630 (316)

VAPUR PRESSURE:MM HG 200

SOLUBILITY IN WATER:

VISCOSITY:

VISCOSITY:

POUR POINT: F(C)

FLASH POINT: F(C) (METHOD)

>46J(238) (ASTM 0-92)

NA=NJT APPLICABLE NEENCT ESTABLISHED DEDECOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*\*\*

> WT PCT (APPROX)

TLV(TWA):

AT 100 F. SUS

AT 210 F. SUS

NEGLIGIBLE

1090.3

94.0

MG/M3

HAZARDOUS INGREDIENTS: NONE

NON-HAZARUOUS INGREDIENTS:

REFINED MINERAL DILS

ADDITIVES AND/OR OTHER INGREDS. < 10

NOTE: THE SHEAR FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND DUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFIRE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL #ARRANILES DE EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANIABLLITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULIABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALLE PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

ACUTE

SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBITS)

SLIGHTLY TOXIC(ESTIMATED) ---BASED ON TESTING OF SIMILAR PRODUCTS
AND/OR THE CUMPONENTS.

INHALATION TOXICITY: (RATS).

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS

ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY

FURESECABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT.

EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. ---BASED ON TESTING OF SIMILAR

PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CJDES:

(FILL NO: RN210/E3J63 ) MHC: 1 + 1 + NA 0 + 1 + USB2-128NONE APPROVE

8404

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION + PHONE: (212)883-5594

1/ 3/83

60 6 80 PAGE

40 C+ CS

PPM

200.0

19.0

PH:

MG/M3

AT 100 C. CS

MUBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

COUCT ISSAILE LO MUBILGARD 570

SUPPLIER:

MODIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDRJCARBONS AND ADDITIVES

USE OR DESCRIPTION:

MARINE DIESEL CYLINDER OIL

HEALTH EMERGENCY TELEPHONE: (212)883-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMIREC)

OTHER DESIGNATION:

(TRN 606866)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

ASTM 3.0 LIQUIO

: KCCO

MILD

RELATIVE DENSITY: 15/4 C

0.34

MELTING POINT: F(C)

NΔ

BOILING POINT: F(C) >600 (316)

VAPUR PRESSURE:MM HG 20C

VISCOSITY: AT 103 F. SUS

1060.0

VISCOSITY: AT 210 F. SUS

SOLUBILITY IN WATER:

NEGLIGIBLE

TLV(TWA):

POUR POINT: F(C) 25 (-4)

FLASH POINT: F(C) (METHOD)

>450(232) (ASTM D-92)

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*\*

> WT PCT (APPROX)

HAZARDOUS INGRÉDIENTS: N )NE

NON-HAZARDOUS INGREDIENTS: REFINED MINERAL OILS

> 76

ADDITIVES ANCIOR OTHER INGREDS.

NOTE: TLVS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL HARRANTIES DE EVERY KIND AND NATURE. INCLUDING HARRANTIES DE MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FUR USES WHICH INFRINGE VALLO PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

MOBIL MIST LUBE 27

607028

PAGE 4

TOXICOLOGICAL DATA

# ACUTE

LJ59: > 5 G/KG SLIGHTLY TOXIC (ESTIMATED) --- HASED ON TESTING CF

CERMAL TOXICITY: (RABBITS)

LOSD: > 2 TIKE SLIGHTLY TOXIC (ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)
NOT ESTABLISHED

EYE (RRITATION: (RABBITS)

EXPECTED TO HE NON-IRRITATING. ---BASED ON TESTING OF SIMILAR
FRUDUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON FROLONGED OR REPEATED CONTACT.

---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: TSD0031333 ) MHC: 1\* 1\* NE 0\* 1\* US82-084NONE APPROVE
8293

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594

9714782

607028

40 C. CS

45.0

AT 100 C. CS

9.9

NA

MOSIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND FOXICOLOGY DEPT.

150 EAST 42ND STREET . NEW YORK. N.Y. 10017 (USA)

NOTE A STANDAR - TOURS MOHIL MIST LUBE 27

SUPPLIER:

MOHIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HY CROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

INDUSTRIAL LUBRICANT

HEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE:

(810)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 607.028)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

GIUDIA +6 MIZA

ひひがれ: 🖯

. HILD

RELATIVE DENSITY: 15/4 C'

MELTING POINT: F(C)

· NA

BOILING POINT: F(C)

>511(316)

VAPOR PRESSURE:MM HG 20C

VISCOSITY:

VISCOSITY:

AT 10" F. SUS .500.0

AT 210. F. SUS 60.0 🔻

SOLUHILITY IN MATER:

NEGLIGIBLE

POUR POINT: F(C)

10(-12)

FLASH POINT: F(C) (METHOD)

>325(163) (ASTM D-92)

MA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*

> MT PCT TLV(TWA): MG/M3 PPM (APPRGX)

FAZARDOUS INGREDIENTS: VINE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

ADDITIVES AND/OR OTHER INGREDS.

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND DUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL . -AKRANILES DE EVERY KIND AND NATURE. INCLUDING JARRANILES DE MERCHANIABILLIY AND FLINESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OF SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES MAICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

### ACUTE

URAL IDALLITY. CRAIST

LD50: > 15 G/KG NONTOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY: (RABBITS)

LD50: > 5 J/KG NONTOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION FOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAFORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT.

EAPECTED TO DE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

EXPECTED TO HE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER GATA

FILE CODES:

(FILL NO: RL8330 ) MHC: C \* C \* NA D \* 3\* US79-057NONE APPROVE

83+7

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594

1/11/82

3225 GALLOWS ROAD FAIRFAX, VIRGINIA 22037

May 6, 1983

Metro Container Corporation Second and Price Streets Trainer, PA 19013

Attention: Mr. Sidney Levy

Dear Mr. Levy:

Please refer to your telephone conversation of May 4, 1983 with J. L. Ackerley during which you requested Material Safety Data Bulletins on those products packaged in drums at the Paulsboro Lube Plant.

Enclosed you will find Mobil Material Safety Data Bulletins for the products listed on Attachment I. These MSDB's are essentially similar to

If a particular product line includes products of multiple viscosity grades, we have provided one (1) MSDB which is representative of that product line. Attachment II provides a listing of those products affected. We will be happy to furnish MSDB's for the individual products

Should you have any questions or require additional information, please

Very truly yours,

JLAckerley:kmm Enclosure 3006h

G. R. Yordan, Acting Manager Product Formulation &

Quality Control

608257

PAGE 15

# MOBIL MATERIAL SAFETY DATA BULLETIN

MOBIL DIL CORPURATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 FAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

MCHIL VACUALINE 525

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. INCRUCARBONS AND ADDITIVES

USE IR DESCRIPTION:

ROLLER SEARING OIL

HEALTH EMERGENCY TELEPHONE:

- (212)883-4411

TRANSPORT EMERGENCY TELEPHONE: (830.424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRM 688257)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

ASIA 3.5 LIQUID

COUR:

MILO

RELATIVE JENSITY: 15/4 C

3 444 7

MELTING POINT: F(C)

NΑ

BOILING POINT: F(C)

>501(316)

VAPUR PRESSURE:MM HG 200

c 1

VISCOSITY: AT 100 F. SUS

450.0

VISCOSITY: AT 210 F. SUS

53.0

SOLUBILITY IN MATER:

NEGLIGIBLE

BLE .

PH: NA

10.0

0.53

AT 100 C. CS

40 C. CS

POUR POINT: F(C)
13(-12)

FLASH POINT: F(C) (METHOD)

435(224) (ASTM 0-12)

"NA = NOT APPLICABLE NE = NOT ESTABLISHED D=0

NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

WT PCT TEVETHAD:

MG/M3

PPA

HAZARDOUS INGREDIENTS:

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

ADDITIVES AND/OR OTHER INGREDS.

> 95

< 5

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT SUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND BE EXPRESSLY DISCLAIM ALL BARRANTIES OF EVERY KIND AND NATURE. INCLUDING HARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OF AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE ARRINGS AND SAFE HANDLING PHOCEOURES SHOULD BE PROVIDED TO HANDLERS AND USEPS.

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. 150 EAST 42ND STREET, NEW YORK, N.Y. 10017 (USALL

POSUCT - IDENTIFICATION .... \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MOBILFLEET MULTIGRADE 154-40

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

ENGINE OIL

HEALTH EMERGENCY TELEPHONE:

(212)833-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 450403)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

.ASTM 5.5 LIQUID

VISCOSITY:

AT 100 F. SUS

AT 40 C. CS

0008:

VISCOSITY:

513.0 AT 210 F. SUS 75.C

98.0 AT 100 C. CS

CLIM

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN WATER: NEGLIGIBLE

14.0 PH:

0.882 MELTING POINT: F(C)

NΑ

· POUR POINT: F(C)

-15(-26)

BUILING POINT: F(C)

>633 (316)

FLASH POINT: F(C) (METHOD)

>390(199) (ASTM D-92)

VAPOR PRESSURE:MM AG 200

< .1

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

INGREDIENTS \*\*\*\*\*\*\*\*\*

WT PCT TLV(TWA): MG/M3 PPM

(APPROX)

HAZARDOUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL OILS -

AUDITIVES AND/OR OTHER INGREDS. < 25

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANIABLLITY AND FIINESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

### ACUTE

ORAL FOXESTA CRATS

LD50: > 5 G/KG SLIGHTLY TOXIC (ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBITS)

LUSU: > 2 G/KG SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION FOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

.MAY CAUSE SLIGHT IRRITATION. --- HASED ON TESTING OF SIMILAR PRODUCTS AND FOR THE COMPONENTS.

SKIN IRRITATION: (RAUBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: MTN5428HJ200) MHC: 1 \* 1 \* NA 1 \* 1 \* US83-024NONE APPROVE
8519

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. REVISED:
MANAGER OF PRODUCT SAFETY INFORMATION PHONE: (212)883-5594 4/28/83

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET AL NEW YORK. N.Y. 10017 (USA)

### ###<del>##################</del> PR<del>UDUCT IDENTIFICATION</del> MOBILELEET 239

SUPPLIER:

MOBIL OIL CORP.

CHEMICAL NAMES AND SYNDNYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION: .

ENGINE OIL

HEALTH EMERGENCY TELEPHONE:

(212) 883-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 450221)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

4514 5.5 LIQUID

VISCOSITY:

AT 100 F. SUS

56.0

46 C+ CS 78.0

508.0 VISCOSITY: AT 210 F. SUS

AT 100 C. CS

MILD

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN WATER: NEGLIGIBLE

11.6 PH:

0.376

MELTING POINT: F(C)

POUR POINT: F(C)

NA

0008:

BUILING POINT: F(C)

>633(316)

2(-18) FLASH POINT: F(C) (METHOD)

. >430(221) (ASTM D-92)

VAPOR PRESSURE: MM HG 200

< .1

VA = NOT APPLICABLE NE = NOT ESTABLISHED 0=0ECOMPOSES INGREDIENTS

CAPPROXI

WT PCT TLV(TWA): MG/M3

PPM

HAZARDJUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL OILS

> 85

ADDITIVES AND/OR OTHER INGREDS. < 15

NOTE: THE SHOWN FOR GUIDANCE ONLY: FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES DE EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN PESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OF AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD HE PROVIDED TO HANDLERS AND USERS.

\*\*\*\*\* TOXICOLOGICAL DATA

### ACUTE

DRAE TUXICITY: (RATS)

LUSU: > 5 G/KG SLIGHTLY TOXICLESTIMATED) --- BASED ON TESTING OF SIMILAR PROJUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY: (RABBITS)

LD50: > 2 G/KG SLIGHTLY TOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAFORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: MINSA2C3001 ) MMC: 1\* 1\* NA 1\* 1\* US83-024NONE APPROVE
8519

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594 4/28/83

MOBIL DIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 18017 (USA)

440365

PAGE 1

. .

BOUGE IDENTIFICATION - \*\*\*\*\*\*\*\*\*\*\*\*\*\* MOBIL DELVAC SUPER

SUPPLIER: MIBIL DIL CORP. CHEMICAL NAMES AND SYNONYMS: PET. HYDRUCARBONS AND ADDITIVES USE OR DESCRIPTION: ENGINE DIL

HEALTH EMERGENCY TELEPHONE: (212)893-4411 TRANSPORT EMERGENCY TELEPHONE: (809)424-9300 (CHEMTREC) OTHER DESIGNATION: (TRN 440305)

\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES \*\*\*\*\*

APPEARANCE: ASIM 5.5 LIQUID

VISCUSITY: AT 100 F. SUS 513.3

AT 40 C. CS 98.0

OLDE: MILD VISCOSITY: AT 210 F. SUS

AT 120 C. CS 14.0

RELATIVE DENSITY: 1574 C

SOLUBILITY IN LATER:

PH:

0.835 MELTING POINT: F(C)

POUR POINT: F(C)

-20(-291

FLASH POINT: F(C) (METHOD)

BUILING POINT: F(C) >533 (315)

>390(199) (ASTM U-92)

VAPOR PRESSURE: MM HG 200

NA = NOT APPLICABLE NE = NOT ESTABLISHED D=DECOMPOSES rannanananananan INGREDIENTS - \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

> WT PCT TLV(THA): (APPROX)

.HAZARDOUS INGREDIENTS:

NUNE

NON-HAZARODUS INGREDIENTS: REFINED MINERAL DILS ADDITIVES AND/OR OTHER INGREDS.

NOTE: THE SHOWN FOR GUIDANCE ONLY. FULLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES DE EVERY KIND AND NATURE. INCLUDING MARRANTIES DE MERCHANIABLLLIY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD HE PROVIDED TO HANDLERS AND USERS.

#### ACUTE

ORAL TOXICITY: (RATS)

SLIGHTLY TIMIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY: (RABBITS)

SLIGHTLY TOXIC (ESTIMATED) --- HASED, ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT.

EYE TREITATION: (RABBLES)

PRODUCTS AND FOR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRUNIC OR SPECIALIZED (SUMMARY)

OTHER DATA

SUCK

FILE CDDES:

(FILL ND: MTN5428BD2031 MHC: 1 \* 1 \* NA 1 \* 1 \* US83-C24NONE APPROVE
8518

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212) 883-5594

4/27/83

440677 PAGE 1

MOBIL MATERIAL SAFETY DATA BULLETIN

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET CANNEW YORK, N.Y. 10017 (USAN) 150 EAST 42ND STREET

- PRODUCT IDENTIFICATION MOBIL DELVAC 1230

SUPPLIER:

MOBIL OIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

LIG BRIDNE BYTTOKOTUL

HEALTH EMERGENCY TELEPHONE: (212)883-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMTREC)

OTHER DESIGNATION: (TRN 440677)

\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

ASTM 5.5 LIJUID

VISCOSITY:

AT 100 F. SUS

4T 46 C. C3

QUAR:

VISCOSITY:

508.0 AT 210 F. SUS

67.0

110.C AT 100 C. CS

CJIM

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN MATER:

12.0

1.495 MELTING POINT: F(C)

**VEGLIGIBLE** 

PH: NA

NA

POUR POINT: F(C)

2(-18)

HOILING POINT: F(C) >600(316)

FLASH POINT: F(C) (METHOD)

>430(221) (ASTM D-92)

VAPOR PRESSURE:MM HG 200

< .1

VAENUT APPLICABLE

NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*

TLV (TWA):

WT PCT (APPROX)

HAZARDOUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 85

ADDITIVES AND/OR OTHER INGREDS.

NOTE: THE SHICHN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND ME EXPRESSLY DISCLAIM ALL MARRANTIES DE EVERY KIND AND NATURE. INCLUDING WARRANTIES DE MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE IR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A PECIAMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

\*\*\*\*\*\* TOXICOLOGICAL DATA \*\*\*\*\*

#### ACUTE

STACE AND SHOT LAND

SLIGHTLY TOATC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TUXICITY: (RABBITS)

SLIGHTLY TOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION FOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OF REASONABLY FORESEEABLE HANDLING. USE, OR MISUSE OF THIS PRODUCT. EYE TRRITATION: (RABBITS)

MAY CAUSE SLIGHT ERRETATION. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

NONE

FILE CODES:

(FILL NO: MINSA2CO12 ) MHC: 1 \* 1 \* NA 1 \* 1 \* USB3-024NONE APPROVE
8513

ENVIRONMENTAL AFFAIRS AND FOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION \* PHONE: (212)883-5594 4/27/83

440883

PAGE 1

### MOBIL MATERIAL SAFETY- DATA-BULLETIN ...

MORIL DIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 1001 (LUSA)

MOBIL DELVAC 1135-D

SUPPLIER:

MOBIL DIE CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDRUCARBONS AND ADDITIVES

USE OR DESCRIPTION:

AUTOMOTIVE ENGINE OIL

HEALTH EMERGENCY TELEPHONE:

-(212)883-4411

TRANSPORT EMERGENCY TELEPHONF:

(800)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 440883)

\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

CIULIA 0.1 MICA

VISCOSITY: AT 100 F. SUS

40 C. CS. 94.0

490.0

ODDE:

AT 213 F. SUS VISCOSITY: 63.C

AT 100 C. CS

MILJ

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN JATER:

10.8

0.387

NEGLIGIBLE

PH: NA

MELTING POINT: FCC)

NA

. POUR POINT: F(C)

0(-18)

BOILING POINT: FICE >530 (316)

FLASH POINT: F(C) (METHOD)

>425(216) (ASTM D-92)

TLV(TwA):

VAPOR PRESSURE: MM HG 200

< .1

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS

MG/M3

WT PCT (APPROX)

HAZARDJUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 90

ADDITIVES AND/OR OTHER INGREDS:

NOTE: THYS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND DUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND NE EXPRESSLY DISCLAIM ALL MARRANTIES OF EVERY KIND AND NATURE. INCLUDING MARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FUR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD HE PROVIDED TO HANDLERS AND USERS.

### ACUTE

GRAL TOXICITY: (RATS):

SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS
AND/OR THE COMPONENTS:

OFRMAL TOXICITY: (RABBITS)

SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS
AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS

ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY

FORESTEABLE HANDLING, USE, OR MISUSE OF THIS PRODUCT.

EYE TRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT.

---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL ND: MEN374C101 ) MHC: 1\* 1\* NA 1\* 1\* US83-003E-146-79 APPROVE
8503

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION\* PHONE:(212)883-5594 4/12/83

440891 PAGE 1

# MOBIL MATERIAL SAFETY DATA BULLETIN

MODIL OIL CORFORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

<del>OUCT TOENT! FIGSTION</del> MOBIL DELVAC 1149-0

SUPPLIER:

MORIE DIE CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDRUCARBONS AND ADDITIVES

USE OR DESCRIPTION:

AUTOMOTIVE ENGINE OIL

HEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE: (800)424-9300 (CHEMIREC)

OTHER DESIGNATION:

(IRN 440891)

\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

VISCOSITY:

AT 100 F. SUS

40 C. CS

ASTM 7.5 LINUIU COUR:

683.0 VISCOSITY: AT 213 F. SUS

150.0 AT 170 C. CS

MILD.

75.0 SOLUBILITY IN WATER:

15.7

RECATIVE DENSITY: 15/4 C - 3.392

MEGLIGIBLE

PH:

NA

MELIING POINT: F(C)

NΔ

POUR POINT: F(C)

5(-15)

HOLLING POINT: FICE >501(316)

FLASH POINT: F(C) (METHOD)

>420(216) (ASTM D-92)

TLV(TWA):

VAPOR PRESSURE: MM HG 200

NATADE APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

INGREDIENTS

MG/M3 PPM

WT PCT (APPROX)

HAZARDOUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 40

ADDITIVES AND/OR OTHER INGREDS.

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE., CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARKANILES OF EVERY KIND AND NATURE. INCLUDING MARRANTIES OF MERCHANIABLLITY AND FIINESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALLO PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

#### ACUTE

-OR4L-T<del>OXICITY</del>: <del>CRAISI</del>

SLIGHTLY TOXIC (ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TUXICITY: (RABBITS)

SLIGHTLY TOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FOREGEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT.
EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND ZOR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRUNIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: MIN374D2J2 / MHC: 1\* 1\* NA 0\* 1\* US83-303E-146-77 APPROVE 8503

ENVIRONMENTAL AFFAIRS AND FOXICOLOGY DEPT. REVISED:

MANAGER OF PRODUCT SAFETY INFORMATION. PHONE: (212)883-5594 4/12/83

AT 40 C. CS

AT 100 C. CS

104.0

11.7

PH:

- MOBIL DIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREPRIGIA NEW YORK, N.Y. 10017 (USA)L

PART OF THE PART OF PRODUCT IDENTIFICATIONS MOBIL HEAVY DUTY 31

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDRJCARBONS AND ADDITIVES

USE OR DESCRIPTION:

AUTOMOTIVE ENGINE OIL

HEALTH EMERGENCY TELEPHONE:

(212)843-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMTREC)

OTHER DESIGNATION:

543.0

AT 210 F. SUS

NEGLIGIBLE

-15(-261

67.0

420(216) (OPEN CUP)

(TRN 410126)

\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

POUR POINT: F(C)

SOLUBILITY IN HATER:

VISCUSITY:

VISCOSITY: AT 100 F. SUS

FLASH POINT: F(C) (METHOD)

APPEARANCE:

ASTM 5.5 LIAUID

ODJA:

MILD

RELATIVE DENSITY: 15/4 C 8.8.0

MELTING POINT: F(C)

NA

HULLING POINT: F(C)

>633 (316)

VAPOR PRESSURE: MM HG 200 < .1

NA=NOT APPLICABLE NE=NOT ESTABLISHED 0=DECOMPOSES

INGREDIENTS \*\*\*\*\*\*\*\*\*

WT PCT TLV(THA): (APPROX)

MG/M3

HAZARDOUS INGREDIENTS: NONE

NUM-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

ADDITIVES AND/OR OTHER INGREDS.

> 93

< 10

NOTE: TLVS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL JAKKANTIES OF EVERY KIND AND MATURE. INCLUDING WARRANTIES DE MEKCHANTABLITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

#### ACUTE

SLIGHTLY TOMIC (ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY: CRABBITS) SLIGHTLY TOXIC (ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION FUXICITY: (RATS)

NOT APPLICABLE --- HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING, USE, OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABHITS) MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE COUES: (FILL NO: MTN531C151 ) MHC: 1 \* 1 \* NA 1 \* 1 \* US82-119NONE APPROVE ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. REVISED: MANAGER OF PRODUCT SAFETY INFORMATION. PHONE: (212) 383-5594 3/23/83

450411 PAGE 1

# MOBIL MATERIAL SAFETY DATA BULLETIN

MOBIL DIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

TOENT IT INATION MOBILFLEET 300 154-40

SUPPLIER:

MODIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDRUCARHONS AND ADDITIVES

USE OR DESCRIPTION:

LUHR ICANT

HEALTH EMERGENCY TELEPHONE: (212)883-4411

TRANSPORT EMERGENCY TELEPHONE: (800)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 450411)

\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

ASTM 6.0 LIQUID

VISCOSITY:

AT 100 F. SUS 519.0

AT 40 C. CS

VISCOSITY:

AT 210 F. SUS

100.0 AT 100 C+ CS

CJIM

SOLUBILITY IN WATER:

14.0 PH:

RELATIVE DENSITY: 15/4 C 0.887

NEGLIGIBLE POUR POINT: F(C)

NA

MELTING POINT: F(C)

>600 (316)

NA: BOILING POINT: F(C)

-20(-29)

FLASH POINT: F(C) (METHOD)

VAPOR PRESSURE:MM HG 200

390(199) (ASTM D-32)

TLV(TWA):

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*

WT PCT

MG/M3

MAG

(APPROX)

HAZARDOUS INGREDIENTS: LNCK

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL OILS

> 7G

ADDITIVES AND/OR OTHER INGREDS.

< 30

NOTE: THE SHOWN FOR GUIDANCE ONLY. FULLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE HEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND ME EXPRESSLY DISCLAIM ALL MARKANILES OF EVERY KIND AND NATURE, INCLUDING MARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

\*\*\*\*\*\*\* TOXICOLOGICAL DATA \*\*\*\*\*\*

#### ACUTE

GRAL FOXICITY: (RATS)

SLIGHTLY FOXIC (ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS
AND/OR THE COMPONENTS.

DERMAL FOXICITY: (RABBITS)

SLIGHTLY TOXIC(ESTIMATED) ---BASED ON TESTING OF SIMILAR PRODUCTS
AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS
ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR PEASGNABLY
FORESEEABLE HANDLING, USE, OR MISUSE OF THIS PRODUCT.
EYE IRRIFATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN [RRITATION: (RABBITS)

MAY CAUSE SLIGHT [RRITATION ON PROLONGED OR REPEATED CONTACT.

---HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: MTN5598B0103) MHC: 1\* 1\* NA 1\* 1\* US82-211NONE APPROVE
8471
ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. REVISED:
MANAJER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594

3/11/83

MOBIL MATERIAL SAFETY DATA BULLETIN

MOHIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. 150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

402503G/

PAGE 1

### <del>goust themilei</del>n MOBIL SPECIAL 204-40

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDRUCARDONS AND ADDITIVES

USE OR DESCRIPTION:

MULTIGRADE ENGINE OIL

HEALTH EMERGENCY TELEPHONE: (212)893-4411

TRANSPORT EMERGENCY TELEPHONE:

(8801)424-9300 (CHEMIREC)

JIHER DESIGNATION:

(TRN 402503)

\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

ASTM 4.5 EIGUID

VISCOSITY:

AT 100 F. SUS 550.0

40 0.05

COOR:

VISCOSITY:

AT 210 F. SUS

106.0 -AT 150 C. CS

CJIP

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN HATEP:

13.1 PH:

0.889

NEGLIGIBLE

NA

MELITING POINT: F(C)

NΔ

POUR POINT: F(C)

BOILING POINT: F(C)

-25(-32) FLASH POINT: F(C) (METHOD)

>613 (316)

>415(213) (ASTM D-92)

VAPOR PRESSURE: MM HG 200

WASNOT APPLICABLE

NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*

TLV (TWA): MG/M3

WT PCT (APPROX)

HAZARDIUS INGREDIENTS:

NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

ADDITIVES ANCIOR OTHER INGREDS.

NOTE: THIS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN JEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND ME EXPRESSLY DISCLAIM ALL MARRANILES DE EVERY KIND AND MAIURE. INCLUDING MARRANTIES DE MERCHANIABLLITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PRICEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

#### ACUTE

OPAL FOXICITY: MATON

NONTOKIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY: (RABBITS)

NONFOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION FOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESCEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (HABBITS)

EXPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN ERRETATION: (RABBITS)

EXPECTED TO HE NON-IRRITATING. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUHACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CJDES:

(FILL NG: TSD0194032 ) MHC: C+ C+ NA C+ C+ US82-214NONE APPROVE
8451

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAJER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594 2/19/83

## MOBIL MATERIAL SAFETY DATA HULLETIN

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK, N.Y. 10017 (USA)

PRODUCT IDENTIFICATION THANKS AND THE PL 104-40 SF/FE

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

**LUHRICANT** 

HEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE:

(809)424-9300 (CHEMTREC) .

OTHER DESIGNATION:

(TRN 470021)

\*\*\* \* \* . TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

VISCOSITY:

APPEARANCE:

ASTA 7.5 LIQUID

VISCOSITY: AT 100 F . SUS 40 C. CS

378.0

75.0 AT 100 C.

CJIM

OCOR:

71.5

14.0

0.376

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN WATER: NEGLIGIBLE PH: NA

MELTING POINT: F(C)

POUR POINT: F(C)

-29(-29)

-218-F - SUS-

NA

BOILING POINT: F(C)

FLASH POINT: F(C) (METHOD)

>630 (316) VAPOR PRESSURE:MM AG 200 >390(199) (ASTM D-92)

< .1

\*A=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

TLV(TWA):

INGREDIENTS

MG/M3 PPM

MT PCT (APPROX)

HAZARDOUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL OILS

> 75... < 25

ADDITIVES AND/OR OTHER INGREDS.

NOTE: THYS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE PEGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES CE EVERY KIND AND NATURE. INCLUDING MARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

TOXICOLOGICAL DATA

#### ACUTE

URAL TUXICITY: TRAIST.

LD50: > 15 G/KG NONTOXIC(ESTIMATED), --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL FOXICITY: (RABBITS)

LD30: > 5 G/KG NONTOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAFORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- HASED ON TESTING OF SIMILAR PRODUCTS AND FOR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

SAPECTED TO BE NON-IRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRUNIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: 4TN533C2103 ) MHC: C\* 0\* NA 0\* 0\* US82-089E-310-74 APPROVED
8425

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. REVISED:
MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594 1/24/83

MOBIL MATERIAL SAFETY DATA BULLETIN

MUBIL DIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

AND GULL TO STORE THE ROLL OF THE PARTY OF T MOBIL CAR DEALER 284-50

SUPPLIER:

MOBIL OIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PETROLEUM HYDROCARHONS AND ADDIT

USE OR DESCRIPTION:

AUTO ENGINE LUBRICANT

JEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMIREC)

'OTHER DESIGNATION:

(IRN 402628)

\*\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

ASTM 5.3 LIQUID

VISCOSITY:

AT 193 F. SUS 7.35 • 0

NEGLIGIBLE

AT 40 C. C3

: FCC0

VISCOSLIY: AT 210 F. SUS A.I. 100 C. CS

4(Li)

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN WATER:

16.8 PH:

142.0

MELTING POINT: F(C)

POUR POINT: F(C)

NA BUILING POINT: F(C) -15(-26)

FLASH POINT: F(C) (METHOD)

>633(316) VAPOR PRESSURE: MM HG 200 435(224) (ASTM D-92)

NA = NOT APPLICABLE NE = NOT ESTABLISHED U=UECOMPOSES

APPARATATATATA INGREDIENTS APPARATATATA

HT PCT TLV(ThA): . MG/M3 PPM

. (APPROXI

HAZARDJUS INGREDIENTS: SNCN

NON-HAZAROOUS INGREDIENTS:

REFINED MINERAL DILS

> 89 /

ADULTIVES AND/OR OTHER INGREDS. < 20.

NUTE: THIS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED' IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE HEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES OF EVERY KIND AND NATURE. INCLUDING MARRANTIES OF MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULTABILLLY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALIU PATENTS. APPROPRIATE HARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

RIGHAL 462628

#### ACUTE

OHAL FIXECTEX CRAISI

SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

ETRMAL TOXICITY: (RABBITS)

SLIGHTLY TOXICLESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INMALATION COXICITY: CRATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

SAPECTED TO BE MON-TRRITATING. --- BASED ON TESTING OF SIMILAR PRODUCTS AND CR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: MINSIBERISD) MHC: 1\* 1\* NA 3\* 1\* USB0-240 APPROVE

8411

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. REVISED:

MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594 1/10/83

# MOBIL MATERIAL SAFETY DATA BULLETIN

MOBIL DIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42NO STREET NEW YORK. N.Y. 10017 (USA) .

MOBIL CAR DEALER 209-40

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYEROCARHONS AND ADDITIVES

USE OR DESCRIPTION:

MULTIGRADE ENGINE OIL

HEALTH EMERGENCY TELEPHONE:

(212) 98 3-4411

TRANSPORT EMERGENCY TELEPHONE: (800)424-9300 (CHEMTREC)

OTHER DESIGNATION:

(TRN 402610)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

0008:

GIUGIJ 6.6 MTEA

VISCOSITY:

VISCOSITY:

AT 100 F. SUS

72.3

AT 40 C. CS

550.3

AT DID F'. SUS

AT 100 C. CS

SOLUBILITY IN WATER:

12.8 PH:

106.0

RELATIVE DENSITY: 15/4 C 7.437

MELTING POINT: F(C)

MILU

NEGLIGIBLE POUR POINT: F(C)

NA HOLLING POINT: F(C)

>600 (316)

-30(-34) FLASH POINT: F(C) (METHOD)

415(213) (ASTM D-92)

VAPOR PRESSURE:MM HG 200

< .1

MAENOT APPLICABLE NEENOT ESTABLISHED DEDECOMPOSES

\*\*\*\*\* INGREDIENTS

WT PCT TLV(TWA): MG/M3 (APPROX)

HAZAROJUS INGREDIENTS: NUNE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 85

ADDITIVES AND/OR OTHER INGREDS.

< 15

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND ME EXPRESSLY DISCLAIM ALL MARRANCIES DE EVERY KIND AND NATURE. INCLUDING MARRANTIES DE MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. 'APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

#### ACUTE

ORAL TOXICITY: (RATS)

SLIGHTLY TOXIC (ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBITS)

SLIGHTLY TOXIC (ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION FOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE ERRITATION: (RABBITS)

EXPECTED TO BE NON-IRRITATING. --- HASED JN TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRELATION: (RABJITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONSED OR REPEATED CONTACT. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRJNIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL 4D: MINSTIBUATSI) MHC: 1 \* 1 \* NA J \* 1 \* US82-088NONE APPROVE

8551

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION PHONE: (212)883-5594 10/22/82

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

# RODUCT TOENTIFICATION ----MOHILOIL MARINE SAE 3)

SUPPLIER:

MORIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARHONS AND ADDITIVES

USE OR DESCRIPTION:

MARINE ENGINE DIL

HEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE: (803)424-9300 (CHEMTRE'C)

OTHER DESIGNATION:

(TRN 410415)

\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

VISCOSITY: AF 100 F. SUS AT 40 C. CS

ASTY 5. I LIQUID 000R:

530.0 41 213 F. SUS 100.0

MILD

..... VISCOSITY:

57.0

AT 100 C. CS 11.5

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN JATER:

PH:

0.415

NEGLIGIBLE POUR POINT: F(C)

MELTING PUINT: F(C)

-15(-26)

BUILING POINT: F(C)

FLASH POINT: F(C) (METHOD)

>600 (316)

440(227) (ASTM D-92)

VAPOR PRESSURE: MM HG 20C

< .1

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INUREDIENTS \*\*\*\*\*\*\*\*\*\*

WT PCT TEVETWAD: MG/M3

(APPROX)

HAZARDOUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS: REFINED MINERAL DILS

> 90 -

ADDITIVES AND/OR STHER INGREDS.

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND HE EXPRESSLY DISCLAIM ALL MARKANILES DE EVERY KIND AND NATURE. INCLUDING WARRANTIES DE MERCHANIABILLIY AND FLINESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

## ACUTE

of Hilad Mari

ORAL TOXICITY: (RATS)

SIMILAR PROJUCTS AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBETS)

LOSO: > 2 G/KG SLIGHTLY TOXICLESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY ID BE ENCOUNTERED THROUGH ANY CUSTOMARY OF REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONSED OR REPEATED CONTACT. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

. OTHER DATA

FILE CODES:

(FILL NO: MINSORCALDI / MHC: 1 \* 1 \* NA 1 \* 1 \* USB2-CBBNONE APPROV
8.31

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION. PHONE: (212)883-5594

10/22/82

ORIGINAL

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

150 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

## \*\*\*\*\* \*\*\* \*\*\* PRODUCT TOENT IF ICA FLON ----MOBIL CAR DEALER 37

SUPPLIER:

MOBIL DIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION:

LIG BAIDAR BVITCHCTUA

HEALTH EMERGENCY TELEPHONE:

(212)883-4411

TRANSPORT EMERGENCY TELEPHONE:

(800)424-9300 (CHEMIREC)

OTHER DESIGNATION:

"(TRN 412429)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

MILJ.

ASTM 5.0 LIMUID

VISCOSITY: AT 100 F. SUS 530.0

AT 45 C. CS

00008:

VI'SCOSITY: AT 210 F. SUS

67.0 AT 100 C. CS

132.3 SOLUBILITY IN MATER:

12.0

RELATIVE DENSITY: 15/4 C 0.875

NEGLIGIBLE

PH: NΑ

MELTING POINT: F(C) -

VΔ

POUR POINT: F(C) -15(-25)

FLASH POINT: F(C) (METHOD)

BUILING POINT: F(C)

>610 (316)

443(227) (ASTM D-92)

VAPOR PRESSURE: MY HG 200

WARNOT APPLICABLE NEENOT ESTABLISHED DEDECOMPOSES 

WT P.C.T TLV(TWA): MG/M3 CAPPROXI

HAZARODUS INGREDIENTS: TONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL DILS

> 9ū

ADDITIVES AND/OH STHER INGREDS.

< 10

NOTE: FLVS SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE-AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARKANILES OF EVERY KIND AND NATURE. INCLUDING WARRANTIES OF MERCHANIABLLITY AND FIINESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

ACUTE 1

ORAL TOXICITY: (RATS)

SLIGHTLY TOXICLESTIMATED) ---BASED ON TESTING OF SIMILAR PRODUCTS
AND/OR THE COMPONENTS.

CERMAL TOXICITY: (RABBITS)

SLIGHTLY TOXIC(ESTIMATED) --- HASED ON TESTING OF SIMILAR PRODUCTS
AND/OR THE COMPONENTS.

INHALATION IDXICITY: (RATS)

NOT APPLICABLE --HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS
ARE UNLIKELY TO HE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY
FORESEEABLE HANDLING, USE, OR MISUSE OF THIS PRODUCT.
EYE IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION. ---BASED ON TESTING OF SIMILAR
PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PRULONGED OR REPEATED CONTACT.

---HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

FILE CODES:

(FILL NO: MTN5)8C1A153) MHC: 1\* 1\* NA 1\* 1\* US82-088NONE APPROVE
8331

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. REVISED:
MANAGER OF PRODUCT SAFETY INFORMATION PHONE: (212)883-5594

10/22/82

MOBIL MATERIAL SAFETY DATA BULLETIN

4001@1P/G/NAL 150 EAST 42ND STREET

PAGE. 1

MUBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

NEW YORK. N.Y. 10017 (USA)

PRODUCT IDENTIFICATION MOBIL SPECIAL 194-30

SUPPLIER: . MOBIL DIL CORP. CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARHUNS AND ADDITIVES USE OR DESCRIPTION:

HEALTH EMERGENCY TELEPHONE: (212)883-4411TRANSPORT EMERGENCY TELEPHONE: (800)424-9300 (CHEMTREC) OTHER DESIGNATION: (TRN. 400101).

\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

AT 102 F. SUS VISCOSITY: 339.0

40 C+ CS 65.9

ASTM 4.5 LIQUID 0008:

AUTO ENGINE OIL

VISCOSITY: AT 210 F + SUS - AT 100 C+ CC 61.5

Y[L] RELATIVE DENSITY: 15/4 C

SOLUBILITY IN WATER:

10.4 PH:

0.878

NEGLIGIBLE

MELTING POINT: F(C) NA

POUR POINT: F(C)

BUILING POINT: F(C)

-20(-29) FLASH POINT: F(C) (METHOD)

400(204) (ASTM D-92)

>533(316) VAPOR PRESSURE:MM HG 200 -

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*\*

> HT PCT TLV(TWA): (APPROX)

HAZARDOUS INGREDIENTS: NUNE

NUN-HAZARDOUS INGREDIENTS: REFINED MINERAL OILS

> 30

ADDITIVES AND/OR OTHER INGREDS.

NOTE: TLVS SHOWN FOR GUIDANCE ONLY. FULLOW APPLICABLE REGULATIONS.

INFURMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES OF EVERY KIND AND NATURE. INCLUDING MARRANTIES OF MERCHANIABLLITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE HARNINGS AND SAFE HANDLING PROCEDURES SHOULD HE PROVIDED TO HANDLERS AND USERS.

#### ACUTE

ORAC TORECTTY 1 - (R & IS) -

ED50: > 5 G/KG 0/1J RATS DIED AT THIS DOSAGE LEVEL. CONSIDERED TO BE NO MORE THAN SLIGHTLY TOXIC BASED ON SINGLE DUST LEVEL TESTING AT 5 G/KG.

CERMAL FORICTTY: (RABBITS)

L)30: > 2 3/KG 0/06 RABBITS DIED AT THIS DOSAGE LEVEL. CONSIDERED TO BE NO MORE THAN SLIGHTLY TOXIC BASED ON SINGLE DOSE LEVEL TESTING AT 2 6/KG.

INHALATION FOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

CAUSED NO SIGNIFICANT IRRITATION TO RABBITS. EYE IRRITATION SCORES: 2.1 AT 1 HOURS. 3.1 AT 24 HOURS. 3 AT 48 HOURS. 3 AT 72 HOURS.

SKIN IRRITATION: (RABBITS)
SLIGHTLY IRRITATING TO RABBITS. PRIMARY IRRITATION SCORE: 1.578

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRUNIC OR SPECIALIZED (SUMMARY)

OTHER DATA

NONE

FILE CODES:

(FILL 40: MINSTLACATSI) MHC: 1 1 NA L 1 US82-119E-XX-81 APPROVE
8323

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. REVISED:
MANAGER OF PRODUCT SAFETY INFORMATION, PHONE: (212)883-5594 16/14/82

# MOBIL MATERIAL SAFETY DATA BULLETIN

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

156 EAST 42ND STREET NEW YORK. N.Y. 10017 (USA)

## MOBIL DELVAC SPECIAL 164-30

SUPPLIER:

WORLF OIL CORP.

CHEMICAL NAMES AND SYNONYMS:

PET. HYDROCARHONS AND ADDITIVES

USE OR DESCRIPTION:

AUTO ENGINE OIL

HEALTH EMERGENCY TELEPHONE:

(212) aH3-4411

TRANSPORT EMERGENCY TELEPHONE:

(803)424-9300 (CHEMIREC)

OTHER DESIGNATION:

(TRN 440222)

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES . \*\*\*\*\*\*\*

APPEARANCE:

. VISCOSITY:

AT 107 F. SUS

AT 40 C. CS

AST4 5.5 LIQUID 0338:

340.0

66.0 AT 105 C. CS

MIL

.... VISCOSITY:

AT 212 F. SUS 52.0

10.5

RELATIVE DENSITY: 15/4 C

SOLUBILITY IN WATER:

PH:

0.331. MELTING POINT: F(C)

NEGLIGIBLE POUR POINT: F(C)

NA

-35(-37)

>633 (316)

BOILING POINT: F(C) FLASH POINT: F(C) (METHOD)

400(204) (ASTM D-92)

VAPUR PRESSURE: MM HG 200

< .1

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*\*

"WT PCT ' TLV(TWA): MG/M3 PPM

(APPROX)

HAZARDOUS INGREDIENTS: NONE

NON-HAZARDOUS INGREDIENTS:

REFINED MINERAL OTES

ADDITIVES AND/OR OTHER INGREDS.

NOTE: THE SHOWN FOR GUIDANCE ONLY. FOLLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL MARRANTIES DE EVERY KIND AND NATURE. INCLUDING HARRANTIES OF MERCHANTAHILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SULTABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALLED PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

#### ACUTE

URAL TUXICITY: TRAIST

SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY: (RABBITS)

SLIGHTLY TOXIC(ESTIMATED) --- BASED ON TESTING OF SIMILAR PRODUCTS AND/JR THE COMPONENTS.

INHALATION TOXICITY: (RATS)

NOT APPLICABLE ---HARMFUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING. USE. OR MISUSE OF THIS PRODUCT. EYE IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION. --- HASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION: (RABBITS)

MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT. --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

MONE

# Products With Multiple Viscosity Grades

	The viscosity Grades				
Product Line	No. of Products	·			
Mobil Heavy Duty Series	5	MSDB Provided			
Mobil Delvac 1100 Series		Mobil Heavy Suty 38			
Mobil Delvac 1200 Series	5	Mobil Delvac 1130			
Mobil Delvac 1300 Series	4	Mobil Delvac 1230			
Mobilfleet 200 Series	5	Mobil Delvac 1330			
Mobil Regular Series	3	Mobilfleet 230			
HDO-UE Series	5	Mobil Regular 30			
PL HD Series	3	HD0-0E-30			
·	2	PL HD 30			
Mobil Vactra Named Series	8	Mobil Vactra Oil Heavy			
Mobil Hydraulic Series	4	Mobil Hydraulic Oil Hvy Med			
Mobil Viscolite Series	4	Mobil Viscolite BB			
Mobil DTE Named Series	5	Mobil DTE Oil Hvy Med			
Mobil DTE Lettered Series	3	Mobil DTE Oil 88			
Mobil Vactra Numbered Series	4	· · · · · · · · · · · · · · · · · · ·			
Mobil Velocite Series	3	Mobil Vactra Oil No. 2			
Mobilgard 12 Series	3	Mobil Velocite Oil No. 6			
Mobilgaro 42 Series	2	Mobilgard 412			
Mobilgard 24 Series	2	Mobilgard 442			
Mobil DTE 20 Series		Mobilgard 424			
Mobil OTE 10 Series	3	Mobil DTE 25			
Mobil Almo 500 Series	2	Mobil DTE 13			
Mobil Vacuoline 300 Series	3	Mobil Almo 527			
Mobil Vacuoline 500 Series	3	Mobil Vacuoline 337			
Mobilgear 600 Series	2	Mobil Vacuoline 525			
a-dr 000 Delies	7	Mobilgear 630			

601310	Mane			•
50132 <del>3</del>	MOBIL VACUOLINE 1405		•	,
501419	- MORIE VACUOLINE 1409			
631463	MOBIL VACUOLINE 133			
601690	MOBIL VACUULINE 146			
501703	GARGOYLE ARCTIC OIL C HEAVY			
aJ1339	GARGOYLE ARCTIC OIL EXTRA HEAVY	Υ '		
6J194A	HOBEL DIE DEL 195	•		
602221	MODEL VOCO ENGINE OIL NO. 1			
632454	SCCONY OUST STOP LUBRICANT			L 231
612482	MOBILGARD 593			C 2 3 I
672521	MODILGARD 412			
602565	MUBILGARD 442			•
572531	MODILGARO 424			
512510	MOBIL OTE 25			
502413	MUBIL OTE 13		•	•
603191	MODILGARU 346		× · ·	
69.575a	MOBIL ALMO 527		•	
á)61)3	MORILFLUID 350			•
406665	MOHIL VACUOLINE 337			
516723	MOBILGARD 300			
636836	MOBILGARD 507	•		
606973	MOBILGARO 570 ETNA 25	•	•	
507128	MARIL MICT LUNG OF			L231
638257	MOBIL MIST LUBE 27 Mobil Vacualine 525			<b>L</b> 2 3 1
513765	MOBIL SA NO. 6			
51 1873	MUBILGEAR 630			
á2J342	AMBREX 153		a.	
523533	AMBREA 300		.*	
521541	FLOUREX 100	/	`	•
. 521643	FLOWREX 200	•		
621737	FLOUREX 530			•
621333	RUBREX 230			
665547	MOBILMET OMICRON			
565554	MOBILHET UPSILON			•
665332	MUBILMET NU			<b>L</b> 99
áá7355	MUBILARMA 355			
667139	MORILARMA 524			
671487	VACMUL 150			
571353	VACMUL A6			· .
633355	MCHILSOL A	•	•	-
540512	MOBIL THERM 603			L231
621347-34	RUBREK 133			
			-	*

# Attachment 1 ORIGINAL

# CUSTOMER ID: 1148526610

470021	PL 104-40 SF/FE			
178987	HDO-0E-3T			
471011	PL 104-33 SF	•	-	
472134	PL HO 30			
416314	INFILREX 105 SAE 50			•
476515	INFILREX 263 SAE 54-30			
433152	MOHIL SUPER 104-40			
430110	MOHIL AERO HFA			1.074
494114	AVREX 903			L 230
510115	MODILUBE C 90			L 230
5 <b>13123</b>	MUBILUBE C 140			
511155	MORILUBE HD 804-90			
510193 .	MUHILUBE HD 85W-140			
521155	MOULELUID 99			•
522144-01	MUBIL ATE 210		•	
522177	MOBIL ATE 220			
522250	MOBILFLUID 303	•		•
522313	MOBILFLUID 423			•
554273	INFILREX 441	•		
554295	INFILREX 316 GM			
565328	PL GM ATF		•	
.565153	PL FORD ATF -RL 938 AR-1		.*	
580415	MOBIL VACTRA OIL HEAVY	•		
.531223	MUBIL HYDRAULIC OIL HEAVY MEDIUM	•	•	• .
531/24	MOBIL VISCOLITE OIL BB			
600114	MOBIL OFE 197 OIL			
513163	MUICOM YVAOH LIG OTG LIBOM	•		
500221	MCBIL DIE DIL BB	•		•
530434	MOBIL VACTRA OIL NO. 2			•
610563	MOHIL VELOCITE DIL NO. 6			
630713	MOBIL DIE OIL NO. 3	•		L124
600916	RARUS 57			
631211	MUBIL 500 W SUPER CYLINDER OIL			
601237	MOBIL EXTRA HECLA SUPER CYLINDER OIL		•	
691243	MODIL EXTRA HECLA SUPER CYLINDER OIL		. :	
631251	MOREL COL MICEL SOFER CITTABLE () [	MINEPAL	-	

# Products With Multiple Viscosity Grades

ORIGINAL

Product Line	No6.0	ORIGINA
	No. of Products	MSDB Provided
Mobil Heavy Duty Series	5	Mobil Heavy Suty 30
Mobil Delvac 1100 Series	5	Mobil Delvac 1130
Mobil Delvac 1200 Series	4	Mobil Delvac 1230
Mobil Delvac 1300 Series	5	Mobil Delvac 1330
Mobilfleet 200 Series	. 3	Mobilfleet 230
Mobil Regular Series	5	Mobil Regular 30
HDO-UE Series	3	HD0-0E-30
PL HD Series	2	•
Mobil Vactra Named Series	8	PL HD 30
Mobil Hydraulic Series	4	Mobil Vactra Oil Heavy
Mobil Viscolite Series	4	Mobil Hydraulic Oil Hvy Med
Mobil DTE Named Series	5	Mobil Viscolite 88
Mobil DTE Lettered Series		Mobil DTE Oil Hvy Med
Mobil Vactra Numbered Series	3	Mobil DTE Oil 88
Mobil Velocite Series	4	Mobil Vactra Oil No. 2
Mobilgard 12 Series	3	Mobil Velocite Oil No. 6
•	. 3	Mobilgard 412
Mobilgara 42 Series	2	Mobilgard 442
Mobilgard 24 Series	2	Mobilgard 424
Mobil DTE 20 Series	3	Mobil DTE 25
Mobil DTE 10 Series	2	Mobil_DTE 13
Mobil Almo 500 Series	3	Mobil Almo 527
Mobil Vacuoline 300 Series	3	Mobil Vacuoline 337
Mobil Vacuoline 500 Series	2	Mobil Vacuoline 525
Mobilgear 600 Series	7	Mobilgear 630
· ·	•	· · · · · · · · · · · · · · · · · · ·

601310	MOBIL VACUOLINE	F 1405				
501324	- WORLE VACUOLINE	1+0-7	- <u> </u>			•
501413	MUBIL VACUOLINE	133				
501463	MOBIL VACUULINE	146		·		•
601690	GARGOYLE ARCTIC		HEAUV			
501703	GARGOYLE ARCTIC		TOA USAM			
931330	MOBIL OTE OIL 1	, 9 <b>12</b> CA	THA HEAV	τ .		•
6J194A	MOBIL VOCO ENGI	NE OT	ALC:		•	
502221	SCCONY DUST STO	PIUNRT	CANT		•	
502451	MOBILGARD 593	· LOGKI	CANI	•	•	L 231
612482	MOBILGARD 412					
612521	MUHILGARD 442		.*		•	•
602565	MOSILGARD 424					•
512531	MOBIL OTE 25	•		•		
5J2540	MUBIL OTE 13			-	• •	
aJ 2413	. MOHILGARD 346		•			
513191	MOBIL ALMO 527					
60 <b>575</b> 4	MOHILFLUID 350	-		•	•	
<b>636133</b>	MUHIL VACUOLINE	3 57				
40 <b>66</b> 55	MOBILGARD 330	331				
506723	MCBILGARD 507					
606806	MOBILGARD 570			•	•	•
606971	ETNA 25					
507128	MOBIL MIST LUBE	27	•			L 231
538251	MOBIL VACUOLINE	525				•
510765	MOBIL SM NO. 6	323			ř.	•
51 1873	MUBILGEAR 650			•	* *	
á2J542	AMBREX 150			-		•
523533	AMBREA 300					
521541	FLOWRER 100 -					
521543	FLOWREX 200			•	-	*
621737	FLOWRER 530					•
621333	RUBREK 230			•	·	
665547	MOBILMET OMICRON			•		
565554	MOBILHET UPSILON					
565392	MUBILMET NU	**		•		. <b>L</b> 99
667355	MUBILARMA 355		•	*	•	
66713)	MOBILARMA 524					
571487	VACMUL 150		•			
57135)	VACMUL A6					
3 <b>3335</b> 5	MCHILSOL A					•
30512	MOBILTHERM 603				•	L231
521347-34	RUBREK 100	•			•	

# ORIGINAL

470021	PL 10W-40 SF/FE	
113787	HD0-0E-30	
471011	PL 104-33 SF	
4/2134	PL HD 30	
416314	INFILREX 105 SAE 50	•
4/6515	INFILREX 263 SAE 54-30	
480152	MOULL SUPER 10W-40	
490110	MOHIL AERO HEA	
494314	AVREX 903	L230
510115	MOBILURE C 90	L 230
513123	MOBILUBE C 140	
511155	MURILUBE HD BUH-90	
210134	MUHILUBE HD 85W-140	
523155	MOULLFLUID 99	
522144-11	MUBIL ATE 210	
5221 <i>1.1</i>	MOBIL ATF 220	
522251	MOBILFLUID 300	
522313	MIBILFLUID 423	
554273	INFILREX 441	
554235	INFILREX 316 GM	
565028	PL GM ATF	
565153	PL FURD ATF -RL 938 AR-1	•
580415	MOBIL VACTRA OIL HEAVY	
531223	MUBIL HYDRAULIC OIL HEAVY MEDIUM	-
531/23	MOBIL VISCOLITE OIL BB	
500114	MOSIL OTE 797 DIL	•
5;3163	MOBIL DTE OIL HEAVY MEDIUM	•
500221	MOBIL DIE DIL BB	
530434	MOSIL VACTRA OIL NO. 2	-
510563	MCHIL VELOCITE DIL NO. 5	
630713	MCBIL DTE OIL NO. 3	L124
600916	RARUS 57	
6J1211	MUBIL 500 H SUPER CYLINDER OIL	
EJ1237	MOBIL EXTRA HECLA SUPER CVITNOED OT	
601243	MUDIL EXTRA HECLA SUPER CYLINDER OIL MINERAL	
á)12á)	MOBIL 600 M CYLINDER OIL	

403101	HOBIL SPECIAL 104-30
170117	HODIE SPECIAL LOW-JO EXPORT
402503	MUBIL SPECIAL 204-40
412602	MOBIL CAR DEALER 104-30
472617	MOBIL CAR DEALER 204-40
402323	MUBIL CAR DEALER 204-50
410126	MOBIL HEAVY DUTY 30
41 34 15	MOBILOIL MARINE SAE 30
41 24 11	MUBIL CAR DEALER 204-20
412429	MOBIL CAR DEALER 30
440222	MOBIL DELVAC SPECIAL 104-36
440230	MUHIL DELVAC SPECIAL 204-40
940395	MOBIL DELVAC SUPER
440523	MOBIL DELVAC 1130
440577	MOHIL DELVAC 1230
440721	MUSIL DELVAC 1330
443883	MOBIL DELVAC 1130-0
440331	MOBIL DELVAC 1140-0
450221	MOBILFLEET 230
450403.	MOBILFLEET MULTIGRADE 154-40
450411	MOBILFLEET 300 154-46
460121	MORTI REGILLAR 33

May 6, 1983

Metro Container Corporation • Second and Price Streets Trainer, PA 19013

Attention: Mr. Sidney Levy

Dear Mr. Levy:

Please refer to your telephone conversation of May 4, 1983 with J. L. Ackerley during which you requested Material Safety Data Bulletins on those products packaged in drums at the Paulsboro Lube Plant.

Enclosed you will find Mobil Material Safety Data Bulletins for the products listed on Attachment I. These MSDB's are essentially similar to Form OSHA 20.

If a particular product line includes products of multiple viscosity grades, we have provided one (1) MSDB which is representative of that product line. Attachment II provides a listing of those products affected. We will be happy to furnish MSDB's for the individual products at your request.

Should you have any questions or require additional information, please let us know.

Very truly yours,

JLAckerley:kmm Enclosure 3006h

G. R. Jordan, Acting Manager Product Formulation &

Quality Control

Mobil

## MOBIL MATERIAL SAFETY DATA BULLETIN

671487 PAGE 1 OPICINAL

MOBIL OIL CORPORATION ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT. 150 EAST 42ND STREET NEW YORK. N.Y. 10C17 (USA)

HEALTH EMERGENCY TELEPHONE:

(TRN 671487)

PRODUCTOROUNDERSTRUCKERON VACMUL 15D

SUMPLIER: " . MODIL OIL CORP. CHEMICAL NAMES AND SYNONYMS: PET. HYDRUCARHONS AND ADDITIVES

(212)883-4411 TRANSPORT EMERGENCY TELEPHONE: (833)424-9300 (CHEMTREC) OTHER DESIGNATION:

USE OF DESCRIPTION: METAL PROCESSING OIL

\*\*\*\*\*\*\*\* TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:

VISCOSITY:

AT 100 F. SUS 150.0

40 C. CS 31.9

RED TAN LIQUID GOOR:

VISCOSITY: AT 210 F. SUS AT 100 C. CS

MILJ

ME

NE

RELATIVE DENSITY: 15/4 C J. 344

SOLUBILITY IN WATER: NEGLIGIBLE PH:

MELTING POINT: F(C)

POUR POINT: F(C)

NΑ

25(-4)

BOILING POINT: F(C)

FLASH POINT: F(C) (METHOD)

>630(316) VAPOR PRESSURE:MM HG 200

346(171) (OPEN CUP)

NA=NOT APPLICABLE

NE=NOT ESTABLISHED D=DECOMPOSES INGREDIENTS \*\*\*\*\*\*\*\*\*

TLV(TWA):

DUM MG/M3

MT PCT (APPRCX)

HAZAROJUS INGREDIENTS: N INE

NON-HAZARODUS INGREDIENTS:

REFINED MINERAL OILS

> 93

ADDITIVES AND/OR STHER INGREDS.

< 16

CHLORINATED PARAFFIN MAX

5

NOTE: THYS SHOWN FOR GUIDANCE ONLY. FULLOW APPLICABLE REGULATIONS.

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE. BUT WITHOUT SUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR, USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT -ARE THEREFURE ASSUMED BY THE USER AND <u>be Expressly disclaim all</u> MARRANILES DE EVERY KIND AND NATURE, INCLUDING MARRANILES CE MERCHANIABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USC OR SULTABLLITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OF AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

ACUTE

ORAL TIXICITY: CRATSI

LOSD: > 5 G/KG CONSIDERED TO BE NO MORE THAN SLIGHTLY TOXIC BASED ON SINGLE DUSE LEVEL TESTING AT 5 G/KG.

CERMAL TUXICITY: (RAHBITS)

LUSD: > 2 3/KG 1/06 RABBITS DIED AT THIS DOSAGE LEVEL. CONSIDERED TO BE NO MORE THAN SLIGHTLY TOMIC BASED ON SINGLE DOSE LEVEL TESTING AT 2 G/KG.

INHALATION TOXICITY: (RATS)
NOT ESTABLISHED

EYE TRRITATION: (RABBITS)
CAUSED SLIGHT TRRITATION TO RABBITS.

SKIN TRRITATION: CRAHBITS)
SLIGHTLY TRRITATING TO RABBITS. PRIMARY TRRITATION SCORE: 1.3/A

SUBACUTE AND MUTAGENICITY (SUMMARY)

CHRONIC OR SPECIALIZED (SUMMARY)

OTHER DATA

NUNC

FILE CODES: MHC: 1 1 NE 1 1 63-72 E 247-73 APPROVE 7611

ENVIRONMENTAL AFFAIRS AND TOXICOLOGY DEPT.

MANAGER OF PRODUCT SAFETY INFORMATION. PHONE: (212) PR3-5594 11/ 1/86

anonian) on olul Andrice Coyne Chem Quan pate Disolum 5/600 de phospiater 1000 lags podum 6,500 lags 10/28/83 To lefus errelorde 040260-00 annecholil 0033312-00 Self Service & Chems 5L00D Bulk (1) 01300501 10/25/83 Carestic 50Da Lig 50% 10/25/83 Floredrum Water Chem. gaxifloc 8662 (floculent) 100 net wgt 00018 00012 10/7/83 4 drums Waxifloc 863/48046 (uneversal) Salt Service & chems 10/19/83 012858DI 1041 ga toluol Delmarva Chemical 10/18/83 1 tank huck muriatic acis 19.32 Tons Stevens Paint Corp. 10/18/83 850+ gal. sometro 70928 can paint Mobil #08922 1559a 10/18/83 empty used 1527 sold to Universal Container (metro) Brilin & Company 10/18/83 55 gr D-370PV Velvet Grain 355822 45 lb. Corpne chem 7/19/83 De Son Phopl. 1000 lls 00 30 539- 00 00 Sod netrole 1000 lb.

prief resp 5/4/88, 5/18/88, 5/13/88. Mobil Mayor (mobil) 5/20/88 1042 resp (1042 4/12/88) Paulsboro refinery marketing function residuals were Mobil contends, petroleum or petroleum props quan + residual Contento of unwashed 55 gal druns undocumentes but believes to be 9/25/80 Lette fr Universal Cont to mobil such up raw drums at Paulsboro which Well include Brooklyn Warehouse drums, dropped there by Brooklyn Drays; mobil Will deliver to Frainer, drums picked up via Mobil Chang of Their sources 8/19/80 to: Universal request for Quote: new additive drums at Paulslow SOVASOL Test - particulates 12/3/87 Catalyst drums 1427/82 Hobil Delivac 1330 4505 engine oil > 90 refined < 10 additives 12/27/62/4 obil Car Dealer 20W-20 autoengene oil I (Same) 11/30/82/Mohil Delvac Special 2011-40 Engene lube 785 meneral L 15 additions 11/30/82 Mobil Delvac 1/30 auto engine oil 790 m.o. 1 10 add. 10/27/82/40 Pil Car Dealer 10 W-30 multigrade engene och > 85 mo. 15 add 11/8/79 Drums Paint Shyper; Holil Chem, Plainfield, no 5/3/9 mobil memo; Emply Lucin Retiruns lexcessive oil or slip in drums

K LEASING, INC. PRO. NO. 70384 . J. 08075 GENERAL COMMODITIES & STEEL w Jersey points 800-792-8620 EXPEDITED SERVICE ON: York City 800-257-9012 1. T/L AND LARGE LTL lelphia WA 3-2327 2. PIER MOVEMENTS and Eastern Penna. 1-800-257-9012 Phope (009) 461-1730 3. ALCOHOLIC BEVERAGE ICC MC-134221 ncommon common carrier serving Eastern Penna., New Jersey, and New York City through the "Jersey Cornidor". 10BIL CHEMICAL CO '0 BOX 189 1:0V 1 5 1979 UNIVERSAL CONTAINER LN DIBIANIEL NJ CORFORATION Universal Consider Con. 2ND & PRICE STREETS LN NOSIGE TRAINER, PA. ). / BILL LADING CONNECTING CARRIER PREPAID COLLECT PRO NO. DATE . ХX 7033: 11/08/79 DESCRIPTION 4803 **GROSS** RATE WEIGHT FREIGHT CHARGES DRUMS PAINT, FLAMMABLE 1.6% EMERGENCY FUEL SURCHARGE: 1018 TOTAL 1018 AMERCE COMMISSION REQUIRES THAT THIS BALANCE BE PAID IN SEVEN DAYS. YOUR CO-OPERATION WILL BE APPRECIATED.

Molil/ 15-20 gal. Weste in driems 5/18/78 acid infarum left drive blind E/c plug removed 10/1/18 Padlsboro moll cancelled home steel Dr & Lined Universal Cont (Metro) MSDS 18/83 Mobil Fleet Multigrade 15 W-40 engine orl > 75 4/18/83 MArl Fleet 230 4/27/83 Mobil Delvac Super engene al 275 4/27/83 Mobil Delirec 1230 auto engeno vil 785 4/12/83 Mobil Selvac 1130-D & (Same) >90 11 1140-1 7.90 <10. 3/23/83 Heavy Duty 30 3/11/83 Mobilfleer 300 15W-40 Rubricant > 70 Mil Special 20W-40. 10/2482 419/83 1/24/83 Pl 10W-40 SF/FE 1/10/83 Mobil Car Dealer 20 W-50 lube 10/11/82/90biled Marine 5AF 30 10/21/82 Mobil Car Dealer 30 10/14/82 Motel Spense 10W-30 10/14/82 youl Delvar Special 10 W-30 11/1/80 Vacmul 150" metal processing orl 7 90 < 10 5 oplownalid poller blaning out 1/11/82 Mobil Vacuoline 525 9/14/62 Mobil Mist Lube 27: und lube 1/3/83 Mobilgard 570 4/14/83 "507 7/14/82 "300 1/8/82 Vacuoline 337 lube 10/14/82 Mobil Fluid 350

Mobil [ 14/2/81/40bil almo 527 rock drill lube 5% Chlesmany, many more 14/83 Mobil Voco Engine Oil no. 1 Special machine on 775 (one) gt Sovasol #5 Kinse per drum recovering 1 pt hansferring to 4 or tall form Chyl in program mobil's drum return policy only allowed virgin prod to remain in drug -> chal. D. C. Weckergn '80 106 Silica gel Catalyst drume for mobil to Trainer 1, 12/22/1 (Lots of these type) some are silvagel Cercle Hay Subs: - additives not described only % \_ 2 paint drums (leve) - Chlorinated paraffin Wax VacAul 150 (metal processing oil)
>90 refine montral oils

O makelo south article serp are made of Solvent that can enclude raphtholene, xylene, actore a esoproposed Stere all referred article on.